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ABSTRACT

This reference handbook is designed to provide vocational counselors with background information on a wide range of occupations related to medicine. Nearly 60 careers are described with educational requirements, salaries, schools where training may be obtained, and sources of additional information. An address list of associations and a health careers filmography with sources are included. A 28-page section describes scholarships and loans available to potential health workers. Lists of Montana hospital administrators and directors of nursing, and of suggested resource persons by city are included. (MS)

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STUDENT - COUNSELOR HEALTH CAREERS GUIDEBOOK

Prepared and Distributed

by

Mountain States Regional Medical Program
Montana Division

P. O. Box 2829

Great Falls, Montana 59403

Western Interstate Commission for Higher Education

September 1971

CE 000 026

FOREWORD

To you the Counselor:

Because you play such a vital part in career guidance of high school students, we, who are interested in helping to fill the demand for new personnel in health careers, provide you with this guidebook to assist you as you talk to students about choosing their life work.

In the 1970's health care will be the largest industry in the nation. These are difficult times and there are many areas of concern for youth who wish to make major contributions to human society. There are few careers which compare to a health career in offering youth the opportunity for involvement, the challenge of social betterment, and the continuous diverse opportunity to make a distinctive change in the lives of so many people.

The critical shortage of health manpower coupled with the rapid advances in medicine and health have led to the creation of many new health careers. It is estimated by the American Medical Association that over one million new health workers will be needed in the next four years. The need is great and opportunities abound for young men and women.

By now you have probably been a participant in one of the area seminars on Health Career Recruitment which are being conducted by twenty-five key counselors who attended an orientation session in May of 1971 and accepted the commitment of carrying the message of career opportunities in health to their neighboring counselors throughout Montana. These sessions were developed by a planning committee composed of representatives of the Office of the Superintendent of Public Instruction, the President of the Montana Guidance and Personnel Association, and various health professionals. As a result of these seminars, this manual was compiled.

We hope this reference handbook on Health Careers will assist you in directing youth to meaningful and rewarding careers in health.

Please feel free to write our office at any time you have questions.

Sidney C. Pratt, M.D., Director
WICHE - Mountain States Regional Medical Program - MONTANA
Montana Medical Education and Research Foundation
P. O. Box 2829
Great Falls, Montana 59403

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INTRODUCTION

Health care is the second largest industry in the United States and, in all probability, will become the largest in the 1970's.

This guidebook was designed as an initial, single source reference for both the counselor and the student in seeking information in health careers. While the health care field affords employment opportunities in more than 200 different areas, we have, by necessity and design, limited the descriptive discussions to broad, well recognized health careers.

Many of the areas discussed have employment opportunities for "supportive" or "assistant" personnel (for example: inhalation therapy assistant, physical therapy assistant, medical record assistant, etc.). These positions afford the student a career opportunity with less formal education; frequently on-the-job training is the prerequisite.

We urge you to become familiar with all sections of this guidebook and the resources it provides — career descriptions, scholarships, community resource people, audio-visual, professional associations, etc. Use is limited only by your professional imagination.

We hope, by utilizing the loose leaf format, to periodically update content of this publication. Your comments for future inclusions or improvements will be welcome.

ACKNOWLEDGMENTS

Mountain States Regional Medical Program wishes to thank the health professionals who gave so generously of their time and expertise at the "Counselors Seminar on Health Manpower Recruitment", the beginning of this health careers program -- Mrs. Mary Cordingley, Mr. Robert Schuster, Mr. Robert Yurko, Dr. A. J. Terrill, Mr. Dirk VanLeer, Mrs. Dorothea Davis, Mr. Kenneth Tintinger, Mr. Francis Wright, Sister Anne Bouffard, Mrs. Helen Cory, Mrs. Ethel Nelson, Dr. F. J. Allaire, Miss Joan Cleveland, Mrs. Deborah Line of the Virginia Health Careers who allowed us to utilize parts of their reference manual; the planning committee, Mr. James Fitzpatrick, Mr. Dell Gustin, Mrs. Barbara Crebo, and Dr. Michael Basham; the many professional health organizations who provided career literature; and finally, the secretaries who assisted in the preparation, compilation, and typing of this booklet. We are most grateful and appreciative.

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AUDIO-VISUAL AIDS

The following audio-visual aids are available for use with students, counselors, faculty, or community groups.

"LIFE"*

"Life" is a color sound slide presentation representing the responsive nature of todays fun-loving youth to the community's health problems. Utilizing background nurses with a contemporary beat, the presentation discusses a wide variety of health careers requiring lengthy education training to on-the-job training.

14 minutes - sent in Kodak carousel tray (fits most carousel projectors except models 550, 550R, 570, AV-S80, RA-950, and carousel S)

Tape available in cassette or reel to reel
PLEASE SPECIFY CHOICE WHEN REQUESTING

Manuscript included

Free loan except for return postage

Request from: Mountain States Regional Medical Program -
Montana Division
John J. Breeden, Planning Coordinator
P. O. Box 2829
Great Falls, Montana 59403

Supply three alternative showing dates

"HORIZONS UNLIMITED"

"Horizons Unlimited" is a 28 minute sound, color film picturing a wide variety of hospital health careers. The health occupations are viewed as the hospital administrator visits hospital departments and personnel. Produced by the American Medical Association

Fee loan except for return postage

Request from: Modern Talking Picture Service, Inc.
c/o Photo and Sound Company
1205 North 45th Street
Seattle, Washington 98103

Supply three alternative showing dates

"A MATTER OF OPPORTUNITY"

"A Matter of Opportunity" is a 27 minute sound, black and white film outlining the many opportunities for black students in health careers.

Free loan except for return postage

Request from: Modern Talking Picture Service, Inc.
c/o Photo and Sound Company
1205 North 45th Street
Seattle, Washington 98103

*NOTE: The presentation "Life" will be available through July, 1972, from the Regional Medical Program at the address listed. Thereafter, it will be available directly at the State Film Library.

CAREER	TITLE OF FILM	DESCRIPTION	SOURCE
AUDIOLOGY AND SPEECH PATHOLOGY	That They Shall Speak Time: 29 min. Color	Shows children with various types of communicative problems and what is being done to alleviate these conditions. Also describes 3 fold rehabilitation program of the Inst. of Logopedics: clinical work, research and professional training.	Film Library International Society for Rehab. of the Disabled 219 E 44 Street New York, N.Y. 10017 Rental Fee
	Breaking the Sound Barrier Color 16 mm.	The film demonstrates aspects of work in audiology, speech pathology and teaching the deaf. It is narrated by actress, Nanette Fabray.	Nat'l Ass'n of Hearing & Speech Agencies 919 18 St. N.W. Washington, D.C. 20006 Free Loan
	The Person Within Time: 28 min. Color Produced: 1969	The message is what can be done to bring that person out into the hearing world, with speech skills and readiness for higher education. The film is promotional, but the special esprit of students, teachers and parents makes the human element stand out.	ClarkeSchool of the Deaf Round Hill Road Northampton, Mass. 01060 Rental Fee
	The Brain Damaged Child Time: 25 min. Black & White Produced: 1962	Shows the "team approach" to diagnosis and treatment of a preschool child with organic brain damage.	St. Christopher's Hospital for Children 2600 N Lawrence St. Philadelphia, Penna. 19133 Rental Fee
DENTISTRY	Pattern of a Profession Time: 29 min. Color Produced: 1959	Dramatizes the importance of the mouth as a vital organ of the body. The importance of the profession behind the man who treats the mouth is a theme that makes the film valuable in career guidance. The education of the dentist, research, private practice, public	Bureau of Audio Visual Service 211 E Chicago Ave. Chicago, Illinois 60611 Free Loan

CAREER	TITLE OF FILM	DESCRIPTION	SOURCE
DENTISTRY	The Challenge of Dentistry Time: 28 min. Color Produced: 1962	Designed as a career guidance film, it shows how young Jim Reynolds becomes aware of the importance of dentistry. The film answers basic questions about the dental profession; the training and qualifications necessary, as well as the rewards possible.	Bureau of Audio Visual Service 211 E Chicago Ave. Chicago, Illinois 60611 Free Loan
DIETETICS	View From The Mountain Time: 22 min. Black & White	The film was designed to acquaint students with the wide choice of careers in dietetics. It depicts a dietetic intern as she is faced with the decision of what path in dietetics to follow after graduation.	Modern Talking Pictures Services, Inc. c/o Photo & Sound Co. 1205 N 45th Street Seattle, Wn. 98103 Free Loan
	Take A Good Look Time: 16 min. Color	The slide film illustrates the many types of careers which spring from college preparation in dietetics. It suggests that young people on the threshold of making a career choice match their talents and interests with opportunities in this field.	Ass'n Films, Inc. 561 Hillgrove Ave. LaGrange, Ill. 60525 Free Loan - Return postage only
MEDICAL RECORD LIBRARIAN	Symbol of a Proud Profession Color	Film strip promotes membership in the AAMRL. Cartoons in color with voice and music for use with La Belle Courier sound projector. No screen or electricity.	American Ass'n of Medical Record Librarians 211 E Chicago Blvd. Chicago, Illinois 60611 Loan: $7.50 Purchase: $22.50

CAREER	TITLE OF FILM	DESCRIPTION	SOURCE
MEDICAL RECORD LIBRARIAN	Faith, Facts and Fingertips Time: 15 min. Color Produced: 5/69	Recruitment film for the Medical Records field.	American Ass'n of Medical Record Librarians 211 E Chicago Blvd. Chicago, Illinois 60611 Free Loan
MEDICINE	The Making of A Doctor Time: 3 parts -- 30 min. each Black & White Produced: 1964	Part I: HAD I BUT WORLD ENOUGH AND TIME Portrays the pre-medical and medical education. Part II: WITHIN THESE WALLS depicts the education and training of a resident within the confines of a major teaching hospital. Part III: A WIDER WORLD - Outlines some of the challenging areas of medical practice which are open to a young physician.	American Medical Ass'n. Motion Picture Library 535 N. Dearborn Street Chicago, Illinois 60610
NURSING	Your Career In Nursing Time: 27½ min. Color Produced: 1957	Recruitment for programs in basic nursing. Especially useful in view of the growing need for nurses with college preparation. This film does not portray the newer associate degree program.	ANA-NLN Film Library 267 W 25 Street New York, N.Y. 10001 Rental: 1 day $5.50 1 wk. $8.50
PRACTICAL NURSING	Nurse, Please Time: 28 min. Color Produced: 1954	Recruiting film for practical nursing, to establish the role of the practical nurse in the public mind and to portray the opportunities for a rewarding career in this field.	ANA-NLN Film Library 267 W 25 Street New York, N.Y. 10001 Rental: 1 day $5.50 1 wk. $8.50
NURSE ANESTHETIST	Proud Profession Time: 7 min. Color Film strip/with record	Designed for high school students planning a career in anesthesia. 7 minutes, 40 frames, color, sound. Record 45 rpm adaptable to 33 rpm.	American Ass'n of Nurse Anesthetists 3010 Prudential Plaza Chicago, Illinois 60601 Free Loan

CAREER	TITLE OF FILM	DESCRIPTION	SOURCE
NURSE ANESTHETIST	Anesthesia-A Special Type of Nursing Time: 15 min. Color Film strip/w record	Designed for Health Related Clubs. 15 minutes, 80 frames, color and sound. Record 45 rpm adaptable to 33 rpm.	American Ass'n of Nurse Anesthetists 3010 Prudential Plaza Chicago, Illinois 60601 Free Loan
	In These Hands--(A Day in the Life of a Nurse Anesthetist) Time: 15 min. Color Film strip/w record	Designed for high school students planning a career in anesthesia. 15 minutes, 80 frames, color and sound. Record 45 rpm adaptable to 33 rpm.	American Ass'n of Nurse Anesthetists 3010 Prudential Plaza Chicago, Illinois 60601 Free Loan
OCCUPATIONAL THERAPY	A Way to Life Time: 22 min. Black & White	Unusual documentary utilizing modern film techniques to dramatize the many roles of the OTR. A dynamic presentation about the profession and its challenges.	American Occupational Therapy Association 251 Park Ave., S New York, N.Y. 10010 Rental Fee: $2.00 for 3 weeks
	Target Time: 12 min. Color Cleared for TV	Award-winning recruitment film. Story of a young "collegiate" who is concerned with a future career. He evaluates a recent visit to an occupational therapy department.	American Occupational Therapy Association 251 Park Ave., S New York, N.Y. 10010 Rental Fee: $2.00 for 3 weeks
PHYSICAL THERAPY	For Today and Tomorrow Time: 22 min. Color Produced: 1967	The story follows a young girl from the time of a surfing accident, through selection of a career in physical therapy, experiences in school and on to her first job as a physical therapist.	Cinema Pictures, Inc. 10212 Noble Ave. Mission Hills, Calif. 91343

CAREER	TITLE OF FILM	DESCRIPTION	SOURCE
PHYSICAL THERAPY	The Decision Time: 25 min. Color Produced: 1968	Depicts, through the eyes of the camera, a student visit to three different physical therapy departments; a private office, a hospital department and a home care program. Physical Therapy is portrayed in each location with special reference to the varying roles of the physical therapist.	Cinema Pictures, Inc. 10212 Noble Ave. Mission Hills, Calif. 91343
X-RAY TECHNOLOGY	Training in X-Ray Technology Time: 13 min. Black & White	Assists with the recruitment of students into the field of X-ray Technology. It shows the arrival of a new student, several of her instructors in action, typical classrooms and teaching aids, some of the activities of an X-ray Technician, a graduation climaxing two years of training and closes with a strong recruiting message.	Dept. of Radiology Stanford University Palo Alto, California 94305
	More Than A Job Time: 25 min. Color - Sound	Day in the life of a student in a school of X-ray technology.	Ansco Medical X-Ray Products Photo & Repro. Division Binghamton, N.Y. 13902 Free Loan
	X-Ray Technology Time: 30 min. Black & White	Recruitment film for X-Ray.	Audio-Visual Art Los Angeles City College 855 N. Vermont St. Los Angeles, Calif. 90029 Free Loan

AUDIOLOGIST AND SPEECH PATHOLOGIST

DESCRIPTION: Specialists in speech and hearing have the common goal of helping speech-handicapped children and adults to talk in as nearly normal fashion as possible. The audiologist concentrates on hearing and may specialize in testing, on work with deaf children or adults, hearing rehabilitation or hearing conversation. The speech pathologist diagnosis and treats speech difficulties and his clients may range from small children to adults.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	Science & Speech	Diploma (college preparatory
2. College		4 years
3. Graduate School		1 or 2 years

SCHOOLS: University of Montana
Missoula, Montana 59801

OPPORTUNITIES: There are positions for qualified audiologists and speech pathologists in public and private schools, colleges and universities, hospital and community clinics, rehabilitation centers, governmental agencies, research and private practice. There is a great shortage and more than four jobs for every qualified clinician.

SALARIES:

STARTING	AVERAGE	TOP
$6,400	$8,000-$10,000	$14,000 with experience

Many of the salaries in the lower range were for nine or ten month contracts in school programs.

ADDITIONAL INFORMATION:

Write: American Speech and Hearing Association
9030 Old Georgetown Road
Washington D.C. 20014

National Association of Hearing and Speech Agencies
919 18th Street Northwest
Washington D.C. 20006

CHIROPRACTOR

DESCRIPTION: Chiropractors treat their patients primarily by manual manipulation of parts of the body, especially the spinal column. Because of the emphasis of the importance of the spine and its position, most chiropractors use X-ray extensively to aid in locating the source of the patient's difficulty. Many use such measures as water, light, and heat therapy, and prescribe diet, exercise, and rest. Some state laws restrict the type of supplementary treatment permitted in chiropractic. Chiropractic as a system for healing does not include the use of drugs or surgery.

EDUCATION: Most states require completion of 4-years chiropractic course following high school graduation. Courses in manipulation and spinal adjustments, chiropractic physiotherapy and nutrition. Other subjects, such as, anatomy, physiology and biochemistry. Most states regulate the practice of chiropractors who meet certain educational requirements and pass a State Board examination.

SALARIES:

STARTING	AVERAGE	TOP
$8,000	$12,000	$18,000

ADDITIONAL INFORMATION: Write: American Chiropractic Association
American Building
2200 Grand Avenue
P. O. Box 1535
Des Moines, Iowa 50306

International Chiropractors Association
741 Brady Street
Davenport, Iowa 52805

COMPUTER PROGRAMMER

DESCRIPTION: The computer programmer analyzes the information to be fed into the computer, determining the sequence and the terminology which must be used to convey very precise meanings. On the basis of this analysis, he then translates the data into computer terminology and prepares it for input by punchcard, paper tape, or for large jobs, the much faster working magnetic tape. In some cases, the medical engineer or physician or scientist directing a project acquires programming skills and serves as his own programmer, or as the supervisor of a programming staff.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	College prep.	4 years
2. College	Degree in Math, Physics, Engineering	

Some universities offer graduate level training in computer technology.

SALARIES:

STARTING	AVERAGE	TOP
$7,500	$14,000	$17,000

ADDITIONAL INFORMATION: Write: Medical Engineering and Electronics
2 East 63rd Street
New York, New York 10016

COMPUTER OPERATOR

DESCRIPTION: Computer operators have the task of actually running the computer, maintaining it in good condition, and manning the console (or instrument panel) while a run is in process.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School		4 years
2. College or technical school		

SALARIES:

STARTING	AVERAGE	TOP
$6,500	$7,000	$10,000

ADDITIONAL INFORMATION: Write: Medical Engineering and Electronics
2 East 63rd Street
New York, New York 10016

DENTAL ASSISTANT

DESCRIPTION: The dental assistant greets the patient, answers the telephone, and makes appointments. Most dental assistants also assist the dentist at the chairside, aiding in the X-ray room and performing various lab duties. Dental assistants are trained in making the necessary preparations for a routine examination, a specialized treatment, or minor surgery.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	Science & Business	4 years
2. Junior College Vocational-Technical School On-the-job Training		1-2 years

Note: Special certificates are now obtainable from the American Dental Association following completion of specific American Dental Association courses. Dental colleges and vocational schools offer training for the dental assistant.

SCHOOLS:

Great Falls Vocational-Technical Center
Great Falls Public School
Great Falls, Montana 59401

Butte Business College
220 North Alaska Street
Butte, Montana 59701

OPPORTUNITIES: There is a great need for dental assistants since there is an increased demand for dentists.

SALARIES:

STARTING	AVERAGE	TOP
$5,000	$6,000	$7,500

ADDITIONAL INFORMATION: Write: American Dental Assistants Association
211 East Chicago Avenue, Suite 1230
Chicago, Illinois 60611

DENTAL HYGIENIST

DESCRIPTION: Dental hygienist, working under the supervision of dentists, clean teeth by removing stains and deposits, polish teeth, massage gums, and chart conditions of decay and disease for diagnosis by the dentist. They may provide patient dental education by demonstrating the techniques of mouth care and proper diet.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	College prep. with emphasis on Math, English, & Science	4 years
2. College	May lead to either associate or bachelor's degree depending upon school	2-4 years

SCHOOLS: Sheridan College
Sheridan, Wyoming 82801

BASIC EXPENSES: Tuition and fees vary between schools of dental hygiene. Tuition, textbooks, instruments; $700-$1,000 per year. Living Expenses; $500-$1,000 per year

OPPORTUNITIES: Approximately 10,000 dental hygienists are in practice in the United States; almost all are women. The majority are employed in private dental offices; about one-fourth work for public health agencies or school systems; a few work in industrial plants, clinics, hospitals, and dental hygiene schools, and as civilian employees of the Armed Forces. The current shortage of qualified dental hygienists will continue during the next decade. The American Dental Hygienists' Association reports twice as many job openings as qualified applicants.

SALARIES: Salaries vary according to job location; city salaries are higher.

STARTING	AVERAGE	TOP
$5,000	$7,000	As high as $10,000

ADDITIONAL INFORMATION: Write: American Dental Hygienists' Association
211 East Chicago Avenue, Room 1616
Chicago, Illinois 60611

DENTAL LABORATORY TECHNICIAN

DESCRIPTION: The dental technician is a supporting craftsman to the dentist. He constructs dentures, crowns, bridges, and inlays. In creating his products, the dental lab technician works with a wide variety of tools and materials, including plastics, gold, metal, drills, lathes, and intricate hand tools.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	Chemistry, Ceramics, and Art	4 years
2. Junior College Vocational-Technical School On-the-job Training		1-2 years

Note: Requirements include a high school education with several years of on-the-job training, but a college education is strongly recommended.

SCHOOLS:

American Dental Association
Council on Dental Education
211 East Chicago Avenue
Chicago, Illinois 60611

OPPORTUNITIES: Since there is a need for dentists, there is a need for dental technologists. People are living longer, which has increased the demand for false teeth and inlay work.

SALARIES: The dental technologists with the most training receive the highest salaries.

STARTING	AVERAGE	TOP
$5,000	$8,500	$12,000

ADDITIONAL INFORMATION:

Write: National Association of Dental Laboratories
734 15th Street Northwest
Washington D.C. 20006

DENTIST

DESCRIPTION: The practice of dentistry deals primarily with the diagnosis, treatment, and prevention of diseases of the dental structures, they include the teeth, gums, jaws, and related organs of the mouth. Dentists treat infections of the teeth and gums, correct deformities of the teeth and also collaborate with physicians on related medical problems such as cancer, congenital deformities of the mouth, and systemic infections of dental origin.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	Biology, Chemistry, Physics, English, and Mathematics	4 years
2. College	English, Biology, Physics, Organic & Inorganic Chemistry	4 years* premedical or predentistry
3. Dental School		4 years

*Some dental schools will admit students with three years of undergraduate college preparation. Students wishing to enter a dental speciality field should plan on 2-3 years of postgraduate study.

OPPORTUNITIES: According to the latest figures, about 95,000 dentists were at work in the United States. Nine out of every ten were in private practice. Of the remainder, nearly 6,000 served as commissioned officers in the Armed Forces; about 1,200 had other types of Federal Government positions, and about 15,000 held full-time positions in schools, hospitals, or state and local health agencies. Only about 4% are recognized as specialists. The demand for dental services is increasing faster than the supply of new dentists. The growth in population, the growing awareness of the importance of regular dental care, the development of new payment arrangements, and expanded dental research require more trained personnel.

SALARIES:

STARTING	AVERAGE	TOP
$10,000	$15,000	$20,000 Specialists

ADDITIONAL INFORMATION:

Montana Dental Association
Mr. L. R. Hegland, Executive Secretary
P. O. Box 1692
Billings, Montana 59101

American Dental Association
211 East Chicago Avenue
Chicago, Illinois 60611

DIETITIAN

DESCRIPTION: Public health dietitians and dietary consultants in public health help to provide nutrition and diet consultation and on-the-job training for food managers or food service supervisors in nursing homes, small hospitals, and other group-feeding institutions in the state. These services include help in areas such as nutrition, meal planning, quantity food service, cost control, employee supervision and the like. They also provide special diet and nutrition information and consultation for local and state health department personnel and programs, and work cooperatively with other state agencies and community groups to help promote good food habits; proper diet and health for people of all ages and conditions of health.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	Science courses	4 years
2. College	Bachelor's degree in food & nutrition or institution management	4 years
3. Internship	Supervised by American Dietetic Association	1 year
4. Graduate	Master's degree in foods & nutrition, institution management, or public health nutrition	1-2 years

SCHOOLS:

University of Montana
Missoula, Montana 59801
(Undergraduate)

Montana State University
Bozeman, Montana 59715
(Undergraduate)

SALARIES:

STARTING	AVERAGE	TOP
$7,500	$9,500	$15,000

ADDITIONAL INFORMATION:

Write: The American Dietetic Association
620 North Michigan Avenue
Chicago, Illinois 60611

Public Health Service
National Institutes of Health
Bureau of Health Professions Education
& Manpower Training
Information Office
9000 Rockville Pike
Bethesda, Maryland 20014

ADDITIONAL INFORMATION: (Continued)

Write: Dietitian Consultant
Montana State Department of Health
Cogswell Building
Helena, Montana 59601

FOOD SERVICE SUPERVISOR

DESCRIPTION: The food service supervisor of manager directs the work of the dietary department. The exact nature of this job will depend on the size of the employing institution, but in general the food service supervisor is responsible for coordinating the procurement, production and distribution of food. He often is responsible for the hiring and the firing of employees, and the training of new personnel. They are concerned with the direction of day to day operations, such as the preparation and service of meals, their ordering of food and supplies, and an accurate inventory of goods and services. They also are concerned with the most sanitary methods of food production and serving of food.

EDUCATION: Becoming a food service worker requires no specific amount of education although courses are being instituted each day in high schools and colleges to augment on-the-job training.

SALARIES:

STARTING	AVERAGE
$5,000	$5,500 - $6,000

ADDITIONAL INFORMATION: Write: American Dietetic Association
620 North Michigan Avenue
Chicago, Illinois 60611

PUBLIC HEALTH DIETITIANS
and
DIETARY CONSULTANTS IN PUBLIC HEALTH

DESCRIPTION: Public health dietitians and dietary consultants in public health help to provide nutrition and diet consultation and on-the-job training for food managers or food service supervisors in nursing homes, small hospitals, and other group-feeding institutions in the state. These services include help in areas such as nutrition, meal planning, quantity food service cost control, employee supervision and the like. They also provide special diet and nutrition information and consultation for local and state health department personnel and programs, and work cooperatively with other state agencies and community groups to help promote good food habits; proper diet, and health for people of all ages and conditions of health.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	Science courses	4 years
2. College	Bachelor's degree in food & nutrition or institution management	4 years
3. Internship	Supervised by American Dietetic Association	1 year
*4. Graduate	Master's degree in foods & nutrition, institution management, or public health nutrition	1-2 years

*Required for dietary consultant. In some out-of-state universities a dietetic internship and master's degree can be obtained at the same time.

SCHOOLS:

University of Montana
Missoula, Montana 59801

Montana State University
Bozeman, Montana 59715

BASIC EXPENSES: Colleges will supply this information.

OPPORTUNITIES: There are public health dietary positions in the U.S. Public Health Service, in every state health department in the United States, and in Maternal and Infant Projects and Children and Youth Projects in many local health departments.

SALARIES: Public Health Dietitian starting $6,000 - $7,000
Dietary Consultant starting $7,000 - $8,000

ADDITIONAL INFORMATION: Write: Public Health Service
National Institutes of Health
Bureau of Health Professions Education
& Manpower Training
Information Office
9000 Rockville Pike
Bethesda, Maryland 20014

ELECTROENCEPHALOGRAPH/ELECTROCARDIOGRAPH TECHNICIAN

DESCRIPTION: The electrocardiograph and the electroencephalograph technicians are vital members of the modern health team, operating highly specialized medical equipment. The electrocardiograph (EKG) technician operates the electrocardiograph, a complex piece of medical technology which records the electrical potential of the patient's heart muscles. The EKG specialist works in a hospital lab or at a patient's bedside depending on the individual's condition. Here, the EKG technician places electrodes on the patient's arms, chest, and legs thereby obtaining a reading of the hearts action. Following the test, the results are interpreted by a qualified physician or heart specialist (cardiologists). Important information concerning heart disease and heart attacks have been gained through the use of this important machine. The electroencephalograph technician (EEG) also operates a piece of highly complex specialized machinery. The electroencephalograph records brain waves which may be used in diagnosing a psychois, testing an epileptic child, metabolic diseases, or tumors. The EEG specialist must be skilled in preparing the patient for his test, and capable of keeping the machinery in good working order. While all tests are trained to recognize abnormal wave patterns which may be a clue to serious maladjustment requiring immediate attention.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	Science	4 years
2. College	Biology & Physics	2 years
3. On-the-job Training		3-6 months

OPPORTUNITIES: As technological advances improve and complicate the electronic machinery, the need for qualified technicians will increase. About 7,000 hospitals provide EKG services and over 2,000 give EEG tests.

SALARIES:

STARTING	AVERAGE	TOP
$4,000	$6,000-$7,000	$8,000 with experience

ADDITIONAL INFORMATION: Write or call your local hospital or physician

Write: American Electroencephalograph Society
8700 West Wisconsin Avenue
Milwaukee, Wisconsin 53226

EXECUTIVE HOUSEKEEPER and HOUSEKEEPING AIDE

EXECUTIVE HOUSEKEEPER

DESCRIPTION: The executive housekeeper is responsible for the maintenance of high standards of cleanliness in the hospital. Unless corridors, floors, bathrooms, and wards are kept spotless, germs and bacteria may spread and infect the patients. The executive housekeeper directs the campaign against the spread of disease by supervising all housekeeping personnel, establishing work methods and procedures, and training personnel. The executive housekeeper must work with other members of the health team and coordinate her activities in order to provide the most effective and efficient methods of housekeeping.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School		4 years
2. College	Business & Home Ec.	4 years
3. Work experience		

Many hospitals require college degrees.

HOUSEKEEPING AIDE

DESCRIPTION: The housekeeping aide is a member of the executive housekeeper's staff. The housekeeping aide cleans and services a specific area of the hospital premises. There are no educational requirements - training is on-the-job.

ADDITIONAL INFORMATION: Write: National Executive Housekeepers Association
Business and Professional Building
414 Second Avenue
Gallipolis, Ohio 45631

FOOD AND DRUG ANALYST

DESCRIPTION: He is usually a biologist employed as a researcher by a pharmaceutical company and spends almost all of his time working in the laboratory. He may be experimenting on the effects of various drugs and medical compounds on mice or rabbits. Working within a controlled environment, he precisely notes the type, quantity, and timing of medicines administered as a part of his experiments. A biologist may work for public health. He conducts little basic research and his role is to audit health standards. He may serve as a food inspector checking on restaurants and cafeterias and food processing and distribution centers.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	Biology, Chemistry, & Mathematics	4 years
2. College	Biological Sciences	4 years
3. Graduate		
4. Ph.D. degree for top professional status		

SALARIES:

STARTING	AVERAGE	TOP
$5,000	$7,500	$10,000

ADDITIONAL INFORMATION:

Write: American Institute of Biological Sciences
3900 Wisconsin Avenue Northwest
Washington D.C. 20016

Employment Officer
U.S. Department of Health, Education and Welfare
Washington D.C. 20025

HEALTH EDUCATOR

DESCRIPTION: The aim of health education is to provide experiences which favorably influence habits, attitudes, and knowledge relating to individual and community health. This involves translating research findings into useful, easily understood information available to all people. A health educator is a specialist who provides learning opportunities and experiences for the public. He also helps each health worker to do his job better by using sound educational methods tailored to the job to be done. A public health educator employed by a health department helps to solve public health problems by organizing and working with local community groups and stimulating action on specific health problems. His duties with a voluntary health agency include educating the community about a specific health problem such as cancer, tuberculosis, or heart disease. A school health educator teaches classes such as personal and community health, marriage and family life, safety, and first aid.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	College prep.	4 years
2. College	Health & P.E.	4 years
3. Graduate training		

A master's degree is usually required for public health and administrative positions.

Any accredited college can provide a four-year background. Graduate training is more specialized.

Graduate training in schools of public health:

University of North Carolina, Chapel Hill, N.C.
University of Michigan, AnnArbor, Michigan
University of Minnesota, Minneapolis, Minnesota
University of California, Berkeley & Los Angeles, Calif.
Harvard University, Boston, Massachusetts
Yale University, New Haven, Connecticut
Columbia University, New York, New York
University of Puerto Rico, San Juan, Puerto Rico
University of Hawaii, Honolulu, Hawaii

BASIC EXPENSES: College tuition, fees and living expenses vary between schools. The college selected by the student will be able to provide information on expenses.

OPPORTUNITIES: As a health educator, you may be employed in a local or state health department; the U.S. Public Health Service; international health programs; voluntary health agencies on a local, state or national level; schools or universities; hospitals; clinics; life insurance companies or industry. Vacancies are known to exist regularly. This is a growing field with an increasing need for persons with the necessary specialized education and training.

SALARIES:	STARTING	AVERAGE	TOP
	$6,000	$8,000-$10,000	$18,000

HOSPITAL ADMINISTRATOR AND RELATED MANAGERIAL POSITIONS

DESCRIPTION: The hospital administrator acts to assure that the hospital operates efficiently as a unit; sees that ample facilities, equipment, and services are available; helps coordinate the development and maintenance of training programs for hospital personnel; and sees that the hospital contributes to preventive medicine and improving community health as well as to caring for the ill. He must see that established high professional standards are maintained. The hospital board of directors is their representative within the hospital and the community.

EDUCATION:

SCHOOL	TIME
1. High School	4 years
2. College	4 years
3. School of Hospital Administration	1 year
4. Residency	1 year

Currently, 330 colleges and universities offer graduate programs in this field, 32 of them in the U.S. and Canada. Some of the programs involve one year of academic study followed by 12 months in administrative residency. Others have a two-year academic period which may include clinical experience. Prerequisite undergraduate training, leading to a bachelor's degree, should stress the liberal arts and include studies in economics, business management, statistics, personnel administration, and the biological sciences.

BASIC EXPENSES: Tuition and fees vary between schools.

OPPORTUNITIES: About two-thirds of all hospital administrators work in nonprofit or private hospitals; the remainder are employed in federal, state, or local government hospitals. Opportunities are available in related fields such as hospital associations, public health, hospital planning programs, and consulting. Growth and expansion are constant. More and more new hospitals are being built and trained administrators will be needed to manage them or to work in staff positions.

SALARIES:

STARTING	AVERAGE	TOP
$10,000–$12,000	$16,000	$25,000 Experienced

ADDITIONAL INFORMATION: See your local hospital administrator or write:

The American College of Hospital Administrators
840 North Lake Shore Drive
Chicago, Illinois 60611

Association of University Programs in Hospital Administration
1 Dupont Circle, Room 420
Washington, D.C. 20005

Mr. William Leary, Executive Director
Montana Hospital Association
P. O. Box 543
Helena, Montana 59601

OTHER HOSPITAL MANAGERIAL OCCUPATIONS

Working behind the scenes are a great number of dedicated individuals trained in making the hospital a successful business operation. This does not mean operating the hospital in order to make a profit, but providing the hospital with the most capable personnel, the best available facilities, and the most efficient methods of financing the entire hospital enterprise. Four such careers include the business director, purchasing agent, personnel director, and public relations director.

BUSINESS DIRECTOR - This job may vary slightly from institution to institution, but the business manager or director is in charge of the general financial policy of the hospital. Working with accountants, clerks, and credit managers. The business manager approves all expenditures and keeps accurate financial records for each individual hospital program. A bachelor's degree and several years of accounting work at an accredited hospital are the minimum educational requirements.

PERSONNEL OFFICER - The personnel director is concerned with finding the right man for the right job. Along with his personal staff, the personnel officer formulates and supervises the program of selection, training, promotion and welfare of hospital employees. The personnel officer must have a detailed and comprehensive knowledge of the hospital and its inner workings. Educational requirements include a bachelor's degree with a major in personnel administration and at least one year work experience under a qualified administrator.

PURCHASING AGENT - The purchasing agent buys the supplies, equipment, and services needed by the hospital. Good business judgment, the ability to deal with people, and a general knowledge of economics and bookkeeping are essential qualifications for the purchasing agent. The position requires at least a high school education and five years experience in purchasing. Many large hospitals also require a bachelor's degree in business administration.

PUBLIC RELATIONS DIRECTOR - The public relations director seeks to publicize the hospital's objectives and accomplishments. He makes the community aware of special programs, innovations in medicine being used, and newly appointed members of the medical staff. The public relations director uses various media including television, radio, local newspapers, hospital bulletins, and other publications. Hospitals prefer men and women with a background in journalism, public relations, or advertising to handle this rapidly growing career.

SALARIES:	STARTING	AVERAGE	TOP
	$5,000	$7,000	$9,000-$10,000

ADDITIONAL INFORMATION: For additional information on these careers ask your local hospital.

UNIT MANAGER

DESCRIPTION: The unit managers are the administrative managers of a hospital unit. The unit manager-nurse team are responsible for providing overall patient care. The unit manager's responsibilities include: supervision of all clerical functions except direct medical notation, super- of unit equipment and supplies, inventory control and product evaluation and provision of direct hospital-patient public relations by making patient rounds and evaluating the quality of nonmedical patient care.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	College prep.	4 years
2. College	Business and Management	2-4 years

SALARIES:

STARTING	AVERAGE	TOP
$5,000	$7,500	$10,000

ADDITIONAL INFORMATION: Contact your local hospital.

HOSPITAL PERSONNEL OCCUPATIONS NOT REQUIRING A COLLEGE EDUCATION

These health careers do not require a college education, but they are essential to keep the hospital running smoothly.

ORDERLY - The orderly assist both the physician and professional nurse by performing various routine duties as assigned by other members of the health team. He assists in the lifting of patients and the transportation of both patient and medical equipment within the hospital. The orderly is often called upon to render special services for male patients. Educational requirements vary with the institution, but most hospitals require simple on-the-job training with additional classroom training and demonstration by professional nurses and doctors.

NURSES AIDE - The nurses' aide helps care for the patient. She performs various functions such as helping with meals, adjusting the patient's bed, and answering his phone calls of which add to the patient's comfort. In many hospitals, the nurses' aide takes temperatures, blood pressure, and sterilizes equipment. Training and education is similar to that of an orderly.

RECEPTIONIST - The hospital receptionist directs patients and visitors to various locations within the hospital. She must have a thorough knowledge of the hospital and pleasing and warm personality.

STOCKROOM WORKERS - Stockroom workers are members of the purchasing staff. Their responsibility includes storing efficiently all hospital supplies so they may be obtained at a moment's notice. The stockroom manager and his staff must keep accurate records of all goods in order to prevent shortages of necessary supplies. A high school education with an emphasis on business and commercial courses is recommended.

LAUNDRY WORKER - The laurdry worker is responsible for properly arranging and preparing garments for wear. She may use an electric ion or a large steam press. Six months experience is desireable. New workers can be trained on the job.

MAINTENANCE WORKERS - Maintenance workers perform the various repairs and installations necessary in any hospital. Daily maintenance of the boiler, electrical system, and water system, as well as general carpentry work require a full time staff. Training is gained either on the job, or for more specialized tasks, at a recognized trade school.

SALARIES:	STARTING	AVERAGE	TOP
	$3,500	$4,000	$5,000

HOSPITAL CENTRAL SERVICE TECHNICIAN

DESCRIPTION: The central service technician (who also may be called a central supply worker, hospital aide, or materials handler) performs a variety of duties related to the health and safety of both patients and medical staff. One of his primary responsibilities is the cleaning and sterilizing of instruments, equipment, and supplies according to prescribed procedures and techniques. He collects or receives the used materials from the nursing units, emergency units, outpatient departments, operating rooms, delivery rooms, nurseries, and laboratories, and reprocesses them for reuse. The central service technician is also responsible for assembling and processing sterile and nonsterile treatment and procedure trays or packs, including intravenous infusion sets, blood transfusion sets, several kinds of surgical trays, surgical dressing sets, and obstetrical packs.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	Science	4 years
2. Vocational School		3-6 months
3. On-the-job Training		3-6 months

OPPORTUNITIES: Depending on experience, ability, and education, the central service technician may be promoted to senior or chief technician and, eventually, to an assistant supervisor of the department. In some instances, he may become the department supervisor.

SALARIES:

STARTING	AVERAGE
$4,000	$7,200

ADDITIONAL INFORMATION: Write: American Society for Hospital Central Service Personnel
840 North Lake Shore Drive
Chicago, Illinois 60611

OPERATING ROOM TECHNICIAN

DESCRIPTION: A new member of the surgical team, the operating room technician plays a vital supporting role in the operating room. Working under direct and continuing medical supervision, the operating room technician assists in treating patients in the hospital operating and emergency rooms and performs tasks associated with maintaining maximum antiseptic conditions. The operating room technician may assist in either minor or major surgery, depending upon training and ability. Duties may include helping to set up the operating room with the surgical instruments and supplies required for each operation; handing physicians instruments during surgery; and assisting with post-operative dressing.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School		4 years
2. On-the-job Training		6 months

SALARIES:

STARTING	AVERAGE	TOP
$4,300	$4,500	$5,600

INHALATION THERAPIST

DESCRIPTION: Inhalation therapy is a specialty whose aim is to see that the human body is receiving an adequate supply of oxygen, and at the same time is eliminating its carbon dioxide. It is the aim of inhalation therapy to restore the heart and lung system to normal. For example, cardiac failure, bronchitis, asthma, pulmonary edema, emphysema, cerebral thrombosis, drowning, hemorrage, and shock are some of the disorders treated by inhalation therapy.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	Biology	4 years
2. College		2 years

OPPORTUNITIES: The outlook for the inhalation therapy profession is very good. The medical profession is aware of the importance of this new paramedical specialty. Because the field is comparatively new, the supply of qualified therapists is far less than the demand. Young inhalation therapists can find employment anywhere in the U.S. and advancement is usually rapid.

SALARIES:

STARTING	AVERAGE
$6,000	$12,000

ADDITIONAL INFORMATION: Write: American Association for Inhalation Therapy
4075 Main Street, Suite 316
Riverside, California 92501

MEDICAL ENGINEER

DESCRIPTION: The medical engineer's interest is on health services to the individual and on related research. Working with physicians and scientists, he is utilizing engineering ideas, skills, and techniques to improve medical care, including diagnosis, surgery, and rehabilitation. Still in pioneering stages, medical engineering is already helping to strengthen the analysis and treatment of many diseases and disorders; among them are allergies, arthritis, blindness, cancer, heart disease, and associated circulatory disorders, infectious diseases, mental health, and speech and hearing difficulties. The major tasks are:

1. The development of new kinds of instruments for use in medical and surgical care or in research.
2. The invention and perfecting of devices to repair or compensate for parts of the human body that don't function properly or that have suffered damage as a result of illness or accident.
3. The adaptation of computer technology to serve a wide range of specialized requirements in the health services and in health research.
4. The application of engineering's progressively more precise methods and concepts for use in biophysical research in studies; for example, of the structure of the living organism and the mechanisms through which the human body maintains itself in good running order.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	Math, Biology, Chemistry, and Physics	4 years
2. College	Bach. Degree Engineering, Biophysical sciences	4-5 years
3. Graduate work		1-3 years

OPPORTUNITIES: Medical engineering activities are being undertaken in many settings - hospitals, scientific foundations, government laboratories for biophysical research, universities with strong medical, scientific and engineering programs, and also in some electronic and instrument-making industries. From present indications, the number of such units in all parts of the country will continue to grow.

SALARIES:	STARTING	AVERAGE	TOP
	$7,500	$8,500	$15,000-$20,000

ADDITIONAL INFORMATION: Write: Medical Engineering and Electronics
2 East 63rd Street
New York, New York 10016

MEDICAL ILLUSTRATOR (ARTIST)

DESCRIPTION: The medical illustrator forms the link between the men who do medical research and those who study and apply that information. It is the medical illustrator who takes the latest advances in scientific and medical research and translates those ideas into clearly understandable photographs and drawings. The actual work of the medical illustrator will depend greatly on his individual training and interests, but most medical illustrators are capable of handling a variety of artistic and communication skills including photography, drawings, sketches, and even television. Other medical illustrators are trained in making plastic or synthetic representations of various human organs for classroom demonstration. Medical illustrators work with various members of the health team as well as with authors and educators (illustrating text books) and with research scientists and physicians. The medical illustrator may also be employed in a hospital setting or university where his talents may be used to record visually the latest progress in medicine and aid the student and doctor in his continual study of the human body.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	College prep.	4 years
2. College	Art & Biology	4 years
3. Graduate School	Some medical schools offer programs	1-2 years

OPPORTUNITIES: The medical illustrators have a wide choice of employment settings. They may work in hospitals, research centers, universities or medical publishing houses.

SALARIES:

STARTING	AVERAGE
$5,000	$6,500

ADDITIONAL INFORMATION: Write: Association of Medical Illustrators
738 Keystone Avenue
River Forest, Illinois 60305

MEDICAL TECHNOLOGIST

DESCRIPTION: The medical technologist, MT, (ASCP), works under the supervision of a pathologist or qualified physician and performs bacteriologic, chemical, microscopic, and other clinical laboratory tests to determine the presence or extent of such diseases as diabetes, polio, syphilis, tuberculosis, and many others. Technologists who work in smaller laboratories often engage in many types of tests. Those employed in large hospitals, research or diagnostic laboratories, usually specialize in several kinds of related tests of a single type. The letters after each category of registration designate the specialty of each technologist or laboratory assistant after successful completion of studies and the required national certifying exam.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	College prep.	4 years
2. College		3 years
3. School of Medical Technology		12-18 months

SCHOOLS:

University of Montana
Missoula, Montana 59801

College of Great Falls
Great Falls, Montana 59401

Carroll College
Helena, Montana 59601

Columbus Hospital
1601 2nd Avenue North
Great Falls, Montana 59401

Montana Deaconess Hospital
1101 26th Street South
Great Falls, Montana 59401

St. James Community Hospital
400 South Clark Street
Butte, Montana 59701

St. Vincent's Hospital
2915 12th Avenue North
Billings, Montana 59101

BASIC EXPENSES: Tuition, fees, and living costs vary among schools of medical technology.

OPPORTUNITIES: The majority of medical technologists work in hospital laboratories; others are employed by public health agencies, in physicians' offices, research institutions, and by pharmaceutical manufacturers. Employment opportunities for medical technologists are expected to continue expanding because of increasing dependence of the physician upon laboratory tests and the construction of additional hospital and medical facilities.

SALARIES:	STARTING	AVERAGE	TOP
	$6,600	$8,500	$12,000

Salaries vary widely throughout the United States.

ADDITIONAL INFORMATION:

Write: Registry of Medical Technologists
American Society of Clinical Pathologists
710 South Wolcott Avenue
Chicago, Illinois 60612

American Society of Medical Technologists
Hermann Professional Building, Suite 1600
Houston, Texas 77025

BLOOD BANK TECHNOLOGIST

DESCRIPTION: The blood bank technologist, MT, (ASCP) BB, works under the supervision of a pathologist and is especially trained to detect any of the many factors that may inhibit transfusion of blood from one person to another. Tests are also done on newborn babies to determine if certain diseases are caused by incompatibility of the mother's blood and the baby's blood.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	College prep.	4 years
2. College	Leading to B.S.	3 years
3. Medical Technology School	On-the-job Training	1 year

ADDITIONAL INFORMATION: Write: American National Red Cross
Seventeenth and D Streets Northwest
Washington, D. C.

CERTIFIED LABORATORY ASSISTANT

DESCRIPTION: The certified laboratory assistant, CLA, (ASCP), is a graduate of an accredited high school who has successfully completed the prescribed training course in an approved hospital school and who has passed the special examination based on this training. The CLA works under a medical technologist and pathologist or other qualified physician to assist in the performance of certain clinical laboratory tests.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	Sciences	4 years
2. School of Laboratory Assistants		

SALARIES:

STARTING	AVERAGE
$5,500	$6,500

ADDITIONAL INFORMATION: Write: Registry of Medical Technologists
American Society of Clinical Pathologists
710 South Wolcott Avenue
Chicago, Illinois 60612

CLINICAL LABORATORY TECHNICIAN

DESCRIPTION: Generally, clinical laboratory technicians do not require college training. They assist the medical technologist by performing simple, routine tests and related work that can be learned in a relatively short time. They prepare and stain slides for study, apply sensitivity discs to culture plates and record results; and prepare specimens for microscopic studies. Like technologists and assistants, they may function as generalists in several areas of the laboratory or may specialize in one or more fields.

EDUCATION: The educational requirements for a clinical laboratory technician vary. Some receive on-the-job training while others are required to have one or more years of college. Most programs in junior colleges usually last about two years. The students spend the first nine months in a liberal arts curriculum and the next year they take courses in clinical laboratory procedures. Certification examinations administered by the Board of Medical Technologists of the American Society of Clinical Pathologists (ASCP), are available to graduates of AMA approved schools.

SALARIES:

STARTING	AVERAGE	TOP
$3,500	$4,500	$5,000

ADDITIONAL INFORMATION:

Write: American Medical Technologists
710 Higgins Road
Park Ridge, Illinois 60068

International Society of Clinical
Laboratory Technologists
805 Ambassador Building
411 North Seventh Street
St. Louis, Missouri 63101

CYTOTECHNOLOGIST

DESCRIPTION: The cytotechnologist, CT, (ASCP), works under the supervision of a pathologist and specializes in the study of cells. This work consists of preparing certain body fluids for microscopic examination and is of utmost importance today, especially since the Pap smear for detection of uterine cancer in women has become a suggested routine procedure for annual checkups.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	College prep.	4 years
2. College	Sciences courses	2 years
3. School of Cytotechnology		6 months training, plus 6 months experience

The graduate is then eligible for the National Registry Examination.

SALARIES:

STARTING	AVERAGE	TOP
$6,000	$7,200	$10,000

ADDITIONAL INFORMATION: Write: Registry of Medical Technologists
American Society of Clinical Pathologists
710 South Wolcott Avenue
Chicago, Illinois 60612

MICROBIOLOGIST

DESCRIPTION: The field of general microbiology encompasses the study of the biology of microorganisms and the basic principles which govern their activities. Microbiology offers many areas of specialization and opportunity: virology, the study of viruses; bacteriology, the study of bacteria; mycology, molds and yeasts; phycology, algae; and protozoology, protozoa.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School		4 years
2. College	Science	4-7 years
3. Graduate work increases salary		

SCHOOLS:

University of Montana
Missoula, Montana 59801

Montana State University
Bozeman, Montana 59715

SALARIES:

STARTING	AVERAGE	TOP
$6,500	$8,000	$10,000

OPPORTUNITIES: Demand for well-trained microbiologists now greatly exceeds supply. With the continued expansion of our nation's industry, the increased demand for and availability of medical care, the expansion of teaching and research facilities, and an increasing interest in world health, there is every indication that there will be a continuing shortage of microbiologists at all levels of training for many years.

ADDITIONAL INFORMATION: Write: The American Society of Microbiology
1913 "I" Street Northwest
Washington, D.C. 20006

HOSPITAL LIBRARIAN

DESCRIPTION: The hospital librarian provides hospital patients with pleasure reading materials. If the library collection is large, the librarian may be responsible for reviewing, selecting, and cataloging of all library materials.

EDUCATION: Depending on the institution - public, private or government - requirements will vary. Small hospitals may employ a librarian with on-the-job training; in contrast, larger institutions may require a graduate degree for employment (see medical librarian - medical library assistant).

ADDITIONAL INFORMATION: Write: Medical Library Association
919 North Michigan Avenue, Suite 1601
Chicago, Illinois 60611

MEDICAL ASSISTANT

DESCRIPTION: The medical assistant is the doctor's "right hand". She performs many clerical and technical duties which allow the physician to concentrate more fully on his medical responsibility to the patient. The medical assistant helps prepare patients for examination, sterilizes instruments, takes temperatures, measures heights, and performs simple and routine laboratory tests. In her administrative and clerical capacity, the medical assistant may also serve as a receptionist, bookkeeper, and general secretary to the physician. The medical assistant is the vital link between the public and their doctor.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	Typing & Shorthand	4 years
2. College		2 years

SALARIES:

STARTING	AVERAGE	TOP
$3,500	$4,500	$6,000

ADDITIONAL INFORMATION: Write: American Association of Medical Assistants, Inc.
200 East Ohio Street
Chicago, Illinois 60611

MEDICAL LIBRARIAN

DESCRIPTION: The medical librarian carries out two basic functions - one technical and the other personal. The librarian must evaluate and order medical books, periodicals, audio-visual aids, etc. The orderly classification of these materials is the librarian's responsibility. Working on a personal basis with physicians, nurses, hospital personnel, etc., the librarian may be called upon to answer reference questions, prepare bibliographies, locate materials and help medical library patrons use resources effectively.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	College Prep. with emphasis on math and English	4 years
2. College	Liberal Arts with special emphasis on science	4 years
3. Graduate School of Library Science	Specialization in medical library science	1 year

SCHOOLS: University of Washington
Seattle, Washington 98105

SALARIES:

STARTING	AVERAGE	TOP
$10,000	$12,000	$15,000

ADDITIONAL INFORMATION: Write: Medical Library Association
919 North Michigan Avenue, Suite 1601
Chicago, Illinois 60611

MEDICAL LIBRARY ASSISTANT

DESCRIPTION: The medical library assistant helps the librarian with office and patron procedures of typing, shelving, circulating, preparing, etc. of all library materials.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	Business	4 years
2. Junior College Vocational-Technical On-the-Job Training		1-2 years

SCHOOLS: Bozeman Vocational-Technical School
Bozeman, Montana 59715

SALARIES:

STARTING	AVERAGE	TOP
$4,500	$6,500	$7,500

ADDITIONAL INFORMATION: Write: Medical Library Association
919 North Michigan Avenue, Suite 1601
Chicago, Illinois 60611

MEDICAL RECORD LIBRARIAN

DESCRIPTION: Medical record librarians collect, assemble, maintain, and analyze records and reports on patients' illnesses and treatments. The records maintained by the medical record librarian contain medical and surgical information on each patient and are used for patient care, public health purposes, research, insurance claims, legal actions, and for training doctors, nurses, and related personnel.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	College Prep.	4 years
2. College	English, Physiol., Statistics, Med. Law, Anatomy	4 years

(Some schools offer 3 years plus 1 year hospital training.)

SCHOOLS: Schools offering degrees in Medical Record Library Science:

University of California, School of Public Health, Los Angeles, California
Indiana University School of Medicine, Indianapolis, Indiana
University of S.W. Louisiana, LaFayette, Louisiana
Mercy College, Detroit, Michigan
College of St. Scholastics, Duluth, Minnesota
Avila College, Kansas City, Missouri
St. Louis University, St. Louis, Missouri
College of St. Mary, Omaha, Nebraska
Central Virginia Community College, Lynchburg, Virginia

BASIC EXPENSES: Tuition, fees and living expenses vary between schools. The institution selected by the student will be able to provide information on expenses.

OPPORTUNITIES: The registered medical record librarian may be employed in hospitals, research centers, health department agencies and the health departments of industrial organizations and insurance companies. There are 3,000 to 4,000 registered medical record librarians needed now in the United States.

SALARIES:	STARTING	AVERAGE	OTHER
	$6,000	$9,000	$12,000

ADDITIONAL INFORMATION: Write: American Association of Medical Record Librarians
211 East Chicago Avenue
Chicago, Illinois 60611

MEDICAL SECRETARY

DESCRIPTION: The duties of the medical secretary and those of the medical assistant often overlap; frequently qualified young women assume the responsibilities of both. The medical secretary performs services similar to a secretary in any large business organization, such as answering the phone, making appointments, and answering routine mail. Experienced medical secretaries often act as the physician's business manager, sending out bills, keeping the books and ordering supplies. In the hospital setting, the medical secretary takes technical medical dictation and transcribes from notes or mechanical dictating equipment.

EDUCATION: Educational requirements are similar to that of the medical assistant though the secretary should place more emphasis on the clerical skills during her education.

SCHOOLS:

Great Falls Vocational-Technical Center
Great Falls Public Schools
Great Falls, Montana 59401

Missoula Technical Center
Missoula Public Schools
Missoula, Montana 59801

Northern Montana College
Havre, Montana 59501

Billings Business College
3125 Third Avenue North
Billings, Montana 59102

Butte Business College
220 North Alaska Street
Butte, Montana 59701

SALARIES:

STARTING	AVERAGE
$5,000	$6-8,000

ADDITIONAL INFORMATION: Write: National Registry of Medical Secretaries
1108 Beacon Street
Newton, Massachusetts 02161

PSYCHOLOGIST

DESCRIPTION: Psychologists seek to understand people and explain their actions. They study the behavior of individuals and groups. Their work includes varied activities such as teaching, counseling individuals, planning and conducting training programs for workers, doing research, advising on psychological methods and theories, and administering psychology programs in hospitals, clinics, laboratories and other places.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	College Prep.	4 years
2. College	Liberal arts Major in Psych.	4 years
3. Graduate School	Masters or Ph. D.	2-5 years

GRADUATE SCHOOLS: College of William and Mary, Williamsburg, Virginia

BASIC EXPENSES: Tuition, fees, and living costs vary between schools. The institution selected by the student will be able to provide information on expenses.

OPPORTUNITIES: Colleges and universities employ the largest numbers of psychologists - more than one-third of the total. Government agencies - ~~Federal, state~~ and local - employ the next largest group. Many psychologists also work for elementary and secondary schools, for private industry and for non-profit foundations, hospitals and clinics.

SALARIES:

STARTING	AVERAGE	TOP
$7-14,000	$9-22,000	$22,000+

ADDITIONAL INFORMATION: Write: American Psychological Association
1200 17th Street N.W.
Washington, D.C. 20036

PSYCHIATRIC AIDE

DESCRIPTION: The psychiatric aide works with direct supervision from the professional nurse and other mental health professionals in the care of the hospitalized mentally ill. The main functions of the psychiatric aide are to interact with patients and offer them understanding, kindness and encouragement. Other responsibilities contributing to the recovery of the patient and which have therapeutic value are dressing, feeding and bathing of some few patients, and supervising linens and the cleanliness of the premises.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	Diploma not required	3-4 years

SALARIES:

STARTING	AVERAGE
$3,600	$4,000

ADDITIONAL INFORMATION: Contact your local hospital.

SOCIAL WORKER

DESCRIPTION: Social work is concerned with helping people meet their needs, solve their problems, and achieve a more satisfying life. These special problems are caused by physical and mental illness, emotional difficulties, mental retardation, anti-social behavior, broken homes, unemployment, poverty. Since trouble is no respector of persons, services are available to people of all income and cultural levels.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	College Prep.	4 years
2. College	Lib. arts, Econ., Hist., Pol. Sci., Sociology, Journalism, Pub. Speaking	4 years
3. Graduate School	Sociology	2 years

Graduate school is required as most employers prefer advanced degrees for administrative social work.

SCHOOLS: There are approximately 65 graduate schools of social work in the United States accredited by the Council on Social Work Education.

BASIC EXPENSES: Tuition, fees and living costs vary among schools of social work. The school selected will provide information on expenses.

OPPORTUNITIES: Social workers are employed in family, public welfare and child.care agencies; in medical and mental hospitals; child guidance clinics; juvenile courts; schools; playgrounds, clubs; community centers; community councils; research groups; industry and the Armed Forces.

SALARIES:

STARTING	AVERAGE	OTHER
$6,000	$8-10,000	$10-12,000 (Admin. positions)

ADDITIONAL INFORMATION: Write: National Commission for Social Work Careers
Two Park Avenue
New York, New York 10016

VOCATIONAL REHABILITATION COUNSELOR

DESCRIPTION: The rehabilitation counselor assists in the restoration of disabled persons to levels of proficiency that permit them to lead more productive lives. The primary duties of the counselor involve interviewing and counseling with clients, which may include finding them employment or additional education, coordinating the services which they receive, and contracting services to work out plans for rehabilitation. Some practitioners serve primarily in the evaluation function, while other work principally as counselors or coordinators.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	College Prep.	4 years
2. College	Social science, psych.	4 years
3. Graduate School		2 years

OPPORTUNITIES: It is estimated that by 1975, 25,000 rehabilitation counselors will be needed.

SALARIES:

STARTING	AVERAGE	TOP
$7,000	$8,500	$11,000

SCHOLARSHIP INFORMATION: Limited number of federal stipends are available for graduate study. State agencies may also assist by paying tuition for employees who take job related courses during off-duty hours.

ADDITIONAL INFORMATION: Write: American Rehabilitation Counseling Association
1605 New Hampshire Avenue
Washington, D.C. 20009

National Rehabilitation Counseling Association
1522 K Street N.W.
Washington, D.C. 20005

NURSE ANESTHETIST

DESCRIPTION: As a key member of the operating room team, the nurse anesthetist combines two professions into one, blending professional nursing skill with the science of anesthesia. This highly trained specialist administers (under the supervision of an anesthesiologist or other physician) anesthetic agents to patients undergoing all types of surgery, and to obstetric and other patients in hospitals.

EDUCATION: Must be a registered nurse; see Nursing Education.

SALARIES:

STARTING	AVERAGE	TOP
$9,000	$12,000	$14,000

OPPORTUNITIES: Nurse anesthetists are found in general, military, Public Health Service and Veterans Administration hospitals. Some become supervisors of schools of anesthesia.

ADDITIONAL INFORMATION: Write: American Association of Nurse Anesthetists
3010 Prudential Plaza
Chicago, Illinois 60601

MALE NURSE

DESCRIPTION: The male nurse provides the same services which occupy the female nurse's valuable time. Both the male and female nurse are responsible for rendering bedside care, administering medicine, checking for signs of disorder, and a multitude of other tasks and procedures which are more fully detailed under "Professional Nurse." The male nurse plays a unique role within the hospital, a role based on his distinctive male qualities. The first attribute of the male nurse is his "staying power." The male nurse is often a family man, and his position in the hospital represents a permanent place of employment. To most men, nursing is a full time profession and a life-time career. Another attribute of the male nurse is strength. The male nurse not only brings a greater physical strength to his profession which may be necessary in lifting and transporting patients, but an important psychological "strength." Surveys have shown that many patients respond better to a male figure than a female - while some patients may prefer to be "mothered", others respond better to a "father image." The most significant contribution the male nurse has made is in the supervisory and teaching capacity. More and more qualified male nurses assume roles as anesthetists, administrators, directors, deans, instructors and professors. In the exciting field of nursing the ever important need for capable, responsible, leadership abilities is making the male nurse a vital member of America's health team.

EDUCATION: Educational requirements for the male nurse are identical to those of women.

OPPORTUNITIES: There are NO areas of nursing which do not actively encourage men to enter. The nursing profession desperately seeks more men in the operating room, at the bedside, on faculties in public health agencies, in industry, government - everywhere that female nurses are employed.

SALARIES:	STARTING	AVERAGE	TOP
	$6,000	$8,000	$10,000

ADDITIONAL INFORMATION:

Write: Montana Nurses' Association
227 West Lyndale
Helena, Montana 59601

Committee on Careers
National League for Nursing
10 Columbus Circle
New York, New York 10019

LICENSED PRACTICAL NURSE (LPN)

DESCRIPTION: Licensed practical nurses assist in the care and treatment of the physically and mentally ill, under the direction of physicians or professional nurses. As members of a nursing team they perform many of the less complex tasks such as bathing and feeding patients, taking temperatures, administering medicine, thus freeing professional nurses for more skilled and specialized duties. They may also assist physicians or professional nurses with complicated diagnostic procedures or treatments.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	Math and Chemistry	4 years
2. School of Practical Nursing		1 calendar year

SCHOOLS: See approved nursing schools list on page 62.

OPPORTUNITIES: The majority of licensed practical nurses work in hospitals, clinics, homes for the aged, and in nursing homes or other institutions. A sizable number are employed in private homes, some on a part-time basis. Most of the remainder work in doctors offices, schools and public health agencies. There is a shortage of practical nurses now and it is believed that the need will increase.

SALARIES:

STARTING	AVERAGE	TOP
$4,500	$5,500	$6,000

ADDITIONAL INFORMATION: Write: National Federation of Licensed Practical Nurses
250 West 57th Street
New York, New York 10019

Committee on Careers
National League for Nursing
10 Columbus Circle
New York, New York 10019

ADDITIONAL INFORMATION:

The profession of nursing is only one hundred years old, but already it ranks as one of the most publicized and important of health careers. It is also a career that has one of the widest ranges of educational levels, and offers the broadest scope of employment opportunities.

To obtain a license for practical nursing an applicant must graduate from a State-approved school of practical nursing and pass an examination in every state and District of Columbia. In addition, most states require that applicants be U.S. citizens or have applied for naturalization.

Practical nurse training, which generally lasts one year, may be obtained in schools operated by public school systems, usually as part of a vocational school or adult education program, or universities. In recent years, an increasing number of high schools have included practical nursing courses in their regular curriculums. Approval of schools of practical nursing is given by State boards of nursing. In addition, standards of operation are established by State boards of vocational education for schools under their control.

Practical nurse training includes classroom study of basic nursing skills and related subjects, such as body structure and functions, conditions of illness, nutrition, and types of medicine and medications, as well as supervised clinical practice in applying this training to actual nursing situations.

Post graduate education and in-service training programs are provided in some hospitals. Such programs usually prepare licensed practical nurses to give nursing care in specialized areas such as psychiatric nursing and operating room technique.

Licensed practical nurses are expected to have excellent employment opportunities throughout the remainder of the 1970's. Although the number of practical nurses completing training has risen steadily in recent years to approximately 25,000, the supply of licensed nurses has not kept pace with the demand generated by the establishment of new positions and the need to replace practical nurses who retire, die, or leave the nursing field for other reasons.

*For Nurse's Aide, see "Hospital Personnel Occupations Not Requiring A College Education" on page 30.

REGISTERED NURSE (R.N.)

DESCRIPTION: Registered professional nurses provide nursing services to patients, either by giving direct care or through supervising allied nursing personnel. They administer medications and treatments prescribed by physicians; observe and record symptoms and progress of patients; instruct auxiliary personnel; and perform other duties concerned with the care of the sick and injured, prevention of illness, and promotion of good health.

EDUCATION:

SCHOOL	TIME
1. Hospital Diploma School	27-36 months
2. Junior or Community College Associate Degree	2 years
3. College or University Baccalaureate Degree	4 years

Each school of nursing will have state approval so that its graduates are eligible for the state licensing exam to become registered nurses. Accreditation by the National League for Nursing means the program meets standards considerably above the minimum required for state approval. A college or university offering a nursing program should also be approved by its appropriate regional accrediting association for higher education. After graduation from any of these programs, the graduate is eligible to write the state board of nursing examinations which she must successfully pass to be licensed to practice professional nursing in a particular state. If licensed in one state, she may receive a license by endorsement to practice nursing in another state. After having received a license to practice nursing, the graduate is prepared for first level positions in nursing.

SCHOOLS: See attached list.

EXPENSES: Cost varies with type of program. Cost ranges from $1,000 - $3,000.

OPPORTUNITIES: There are many job opportunities for men and women as nurses. Nurses (general duty, head nurses, supervisors and directors) are employed in hospitals, nursing homes, public health departments, doctors' offices, industries, schools, schools of nursing and as private duty nurses. In addition, the armed services have many opportunities for nurses and they are given officer's rating at the very beginning.

SALARIES:	STARTING	AVERAGE	TOP
	$7,200	$8,500	$10-15,000 (Executive - $20,000)

ADDITIONAL INFORMATION: Write: Any School of Nursing listed on the following page.

Montana Nurses' Association
227 West Lyndale
Helena, Montana 59601

American Nurses' Association
ANA-NLN Committee on Nursing Careers
10 Columbus Circle
New York, New York 10019

MONTANA APPROVED NURSING SCHOOLS

Baccalaureate Degree:

Mrs. Laura C. Walker, R.N., Ph. D.
Director, School of Nursing
Montana State University
Bozeman, Montana 59715

Mrs. Elizabeth Diegel
Associate Professor
Extended Campus
Billings Deaconess Hospital
P. O. Box 1291
Billings, Montana 59103

Harriet Anderson
Associate Professor
Extended Campus
Montana Deaconess Hospital
1101 26th Street South
Great Falls, Montana 59401

Associate Degree:

Mrs. Helen Kiesling, R.N., M.S.
Chairman
Associate Degree Nursing Program
Northern Montana College
Havre, Montana 59501

Mrs. Millie Hom, R.N., M.N.
Chairman
Miles Community College
Miles City, Montana 59301

Diploma:

Miss Phyllis McDonald, R.N., Director
St. Patrick School of Nursing
500 West Broadway
Missoula, Montana 59801

Practical Nursing Schools:

Mr. Raymond W. Heley, Director
Billings Vocational-Technical Center
101 10th Street West
Billings, Montana 59102

Mr. Woodrow Wold, Director
Bozeman Vocational-Technical Center
404 West Main
Bozeman, Montana 59715

Mr. Maurice Driscoll, Director
Butte Vocational-Technical Center
404 South Wyoming
Butte, Montana 59701

Mr. James Carey, Director
Great Falls Vocational-Technical Center
P. O. Box 2669
Great Falls, Montana 59401

Mr. Thad E. Diebel, Dean
Vocational-Technical Division
Northern Montana College
Havre, Montana 59501

Mr. William Korizek, Director
Helena Vocational-Technical School
1115 Roberts
Helena, Montana 59601

Mr. T. E. (Gene) Downey, Director
Missoula Technical Center
909 South Avenue West
Missoula, Montana 59801

Dr. Larry J. Blake, President
Flathead Valley Community College
P. O. Box 1174
Kalispell, Montana 59901

Mr. Gregg McKown, Director
Community Memorial Hospital
221 Fifth Southwest
Sidney, Montana 59270

Applications and correspondence should be directed to the above schools and addresses.

OCCUPATIONAL THERAPIST

DESCRIPTION: Occupational therapy is treatment of a patient by a registered occupational therapist through individual or group participation in restorative activity. The therapy may be needed because the patient has been disabled by an accident or disease; is physically or mentally ill; or handicapped by a birth defect or the infirmities of age. The objective of occupational therapy is to make the patient as independent and well-adjusted as possible, through improving or restoring emotional, physical or vocational capacities and promoting and sustaining social and psychological function.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	Biol., Chem., Phys.	4 years
2. College	Occup. Ther. Course	4 years
3. Internship		6-9 months

SCHOOLS: A program in occupational therapy is tentatively planned for Montana State University.

BASIC EXPENSES: Tuition, fees and living costs vary between schools of occupational therapy. The institution selected by the student will be able to provide information on expenses.

OPPORTUNITIES: Occupational therapists are employed in state, private and government hospitals; rehabilitation centers, sheltered workshops and schools for physically disabled children. It is estimated that in the next decade 10,000 additional occupational therapists will be needed.

SALARIES:

STARTING	AVERAGE	TOP
$6-7,000	$8-10,000	$12-15,000 (Consultants)

ADDITIONAL INFORMATION: Write: American Occupational Therapy Association
251 Park Avenue South
New York, New York 10010

OPTOMETRIST

DESCRIPTION: Optometry is the art and science of vision care. The doctor of optometry (O.D.) is dedicated to preserving the nation's vision. He is skilled in the principles of optics, chemistry, pathology, neurology, physics and countless other scientific disciplines. In the optometrist's quest for the conservation and improvement of vision, he begins by making a series of tests in order to determine the efficiency of your eyes. The test completed, the optometrist analyzes the results and, if necessary, prescribes and fits the proper eye glasses or corrective lenses. The optometrist, however, is not limited to the detection of disease and the prescribing of corrective lenses. Many optometrists are going into specialization such as children's vision, contact lenses, aid to the partially sighted, and visual training.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	Math and Science	4 years
2. College	Pre-optometry	2-4 years
3. Optometry College		4 years

SCHOOLS: There are 12 accredited schools in the U.S.

OPPORTUNITIES: The young optometrist may choose from a variety of career opportunities. He may decide to go immediately into private practice, or he may choose to enter into practice with a group of established optometrists. Other alternatives include employment in public and private clinics or a commission in the armed services. No matter what the decision, there is a shortage of qualified optometrists.

SALARIES:

STARTING	AVERAGE
$8,000	$20,000

ADDITIONAL INFORMATION: Write: American Optometric Association
7000 Chippewa Street
St. Louis, Missouri 63119

ORTHOTIST AND PROSTHETIST

DESCRIPTION: The orthotist makes and fits orthopedic braces for the support of weakened body parts of the correction of body defects, while the prosthetist makes and fits artificial limbs. Both the orthotist and the prosthetist work closely with physicians, surgeons, therapists, and other health professionals involved in rehabilitation.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	Math, Shop, Psych.	4 years
2. On-the-Job Training		

SALARIES:

STARTING	AVERAGE	TOP
$5,200	$8,000	$1,000

ADDITIONAL INFORMATION: Write: American Orthotic and Prosthetic Association
919 Eighteenth Street N.W.
Washington, D.C. 20006

PHARMACIST

DESCRIPTION: Pharmacists help to protect people's health by making drugs and medicines available and providinformation on their use. They dispense prescriptions ordered by physicians and other medical practitioners and may also sell many medicines which can be bought without prescriptions. Others teach in colleges, perform research, supervise the manufacture of pharmaceuticals, develop new drugs, write for pharmaceutical journals, or do administrative work.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	College Prep.	4 years
2. College	Chemistry, physics, pharmacy	5 years

Note: A student may go to a regular university and take a five-year pharmacy course or he may go to a junior college and then go to a three-year pharmacy school.

SCHOOLS: University of Montana
Missoula, Montana 59801

OPPORTUNITIES: The latest figures indicated about 103,000 of the 117,000 licensed pharmacists worked in retail pharmacies. About half of these retail pharmacists owned their drugstores, alone or as members of a partnership, and the others were salaried employees. The remaining pharmacists were employed by pharmaceutical manufacturers, or worked for hospitals. A few were civilian employees of the Federal Government. From 3-4,000 openings arise each year.

SALARIES:

STARTING	AVERAGE	TOP
$10,000	$14,000	1. Own drug store: $20,000
		2. Working for drug manufacturers: $10-15,000

ADDITIONAL
INFORMATION: Write: American Pharmaceutical Association
2215 Constitution Avenue N.W.
Washington, D.C. 20037

American Society for Pharmacology
and Experimental Therapeutics
9650 Rockville Pike
Bethesda, Maryland 20014

American Society of Hospital Pharmacists
4630 Montgomery Avenue
Washington, D.C. 20014

PHYSICAL THERAPIST

DESCRIPTION: Physical therapists help persons with muscle, nerve, joint, or bone diseases and injuries to overcome their disabilities. Following physician instructions, they treat a variety of disorders through therapeutic exercises, the use of mechanical apparatus, and applications of massage, heat, light, water, or electricity. Most of their patients are accident victims, crippled children and disabled older persons.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	Science, math Foreign lang. helpful	4 years
2. College	Physical Therapy Course	4 years

SCHOOLS:

University of Montana
Missoula, Montana 59801

Montana State University
Bozeman, Montana 59715

OPPORTUNITIES: The majority of physical therapists work in hospitals. Approximately one-fourth of all physical therapists are employed by rehabilitation or treatment centers, schools or societies for crippled children, and public health agencies. Some therapists work in physician's offices or clinics, teach in schools of physical therapy, or perform research. The demand for qualified physical therapists is likely to continue. In recent years, schools of physical therapy have been filled to capacity.

SALARIES:

STARTING	AVERAGE	TOP
$6,000	$8,500	$12,000 for administrative positions and consultants

ADDITIONAL INFORMATION: Write: American Physical Therapy Association
1790 Broadway
New York, New York 10019

ADDITIONAL INFORMATION:

Professional education for physical therapists in the United States may be obtained in 41 schools of physical therapy (including the Army Medical Service School) which have been approved by the American Medical Association and the American Physical Therapy Association. The majority of approved schools are part of large universities; the others are operated by hospitals, which usually have university affiliations.

About half of the approved schools offer 4-year programs in physical therapy leading to a bachelor's degree. Some approved schools provide 1 to 2 year undergraduate programs to students who have completed required courses in the biological, physical, and social sciences and through which students may earn either a degree or a certificate in physical therapy. Other schools accept those who already have a bachelor's degree, including the required courses, and give a 12 to 24 month course leading to the certificate. Many schools offer both degree and certificate programs.

The curriculum of approved schools includes anatomy, physiology, pathology, clinical medicine, and psychology, as well as courses in electrotherapy, heat therapy, hydrotherapy, massage, and exercise. In addition to classroom instruction, students are assigned to a hospital or treatment center for supervised clinical experience in the care of patients.

Several universities offer the master's degree in physical therapy. A graduate degree, combined with clinical experience, increases the opportunities for advancement to positions of responsibility in teaching, research, and administration, as well as in the treatment area of physical therapy.

Since an important part of a therapist's job is to help patients and their families understand the treatments and prepare them emotionally for changes that occur, therapists must have patients, resourcefulness, and a sympathetic attitude toward people. Their work also requires good verbal expression, and the ability to plan their work and to schedule treatments so as to insure maximum use of time. In addition, physical therapists should have manual dexterity and physical stamina. For those wishing to determine whether they have the personal qualities needed for this occupation, summer or part-time work as a volunteer in the physical therapy department of a hospital or clinic may prove helpful.

PHYSICIAN

DESCRIPTION:

If you are considering medicine as a career choice, you must explore the possibilities objectively. It is easy to glamorize medicine because of the deep sense of job prestige and excellent standard of living which many physicians enjoy. These "status" elements are, however, by-products of the practice of medicine. They are earned through hard work, advanced education, and long, and often unpredictable, hours of medical practice.

Because the physician's work centers around the lives and well-being of his patients, he must bear heavy responsibilities. His time often is not his own. He must be prepared to meet his patient's needs at all times. His medical education never ends, for he must continue to expand his knowledge by keeping abreast of the latest scientific and other developments in medicine so that he can provide his patients with the best possible care.

Physicians diagnose disease, and treat sick people, medically and surgically. In addition, they often provide emotional support for their patients. They are concerned with the prevention of disease and with the rehabilitation of people who are injured or ill. One out of three physicians engaged in private practice are general practitioners - frequently referred to as "family physicians". The others are specialists in one of the thirty-two fields recognized by the medical profession.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	College Prep. with emphasis on math, science on math, science, and English	4 years
2. College	Pre-medical with strong emphasis in chemistry, biological and physical sciences	3-4 years
3. School of Medicine		4 years
4. Internship		1 year
5. Residency		2-5 years

Pre-medical study must include a strong background in English, physics, biology, math, and chemistry. Students are also encouraged by many schools of medicine to acquire a broad general education by taking courses in humanities and social sciences.

EDUCATION: (Pre-medical)

University of Montana
Missoula, Montana 59801

Montana State University
Bozeman, Montana 59715

Carroll College
Helena, Montana 59601

OPPORTUNITIES: The latest figures indicated about 250,000 physicians were professionally active in the United States. The majority - over 175,000 - were engaged in private practice. About 34,000 were interns or residents in hospitals, and another 10,000 held regular positions on hospital staffs. More than 20,000 physicians were serving as commissioned officers in the Armed Forces or were employed in Federal Government agencies. The remainder were employed in private industry, state and local health departments, medical schools, research foundations, and professional organizations. The rapid population growth and the new frontiers being developed and explored in all areas of science as man moves into the "space" age, have created a need for more and more physicians. The future offers unlimited possibilities. More than 50,000 physicians will be needed by 1975.

SALARIES:

INTERNS	RESIDENTS	PHYSICIANS
$6-8,000	$7,200-12,000	$28,000 average

ADDITIONAL INFORMATION: Write: Department of Undergraduate Medical Education
and
Council on Medical Education and Hospitals
American Medical Association
535 North Dearborn Street
Chicago, Illinois 60610

Montana Medical Association
L.R. Hegland, Executive Secretary
Box 1692
Billings, Montana 59103

The major medical specialties are:

ANESTHESIOLOGY - Administration of various forms of anesthetic drugs necessary during surgical operations or diagnosis.

COLON AND RECTAL SURGERY - Diagnosis and treatment of disorders or diseases of the lower digestive tract.

DERMATOLOGY - Diagnosis and treatment of diseases of the skin.

FAMILY PRACTICE - Evaluation of a patient's or family's total health care needs and provision of personal medical care in one or more fields of medicine and coordination of other health services needed by patients.

INTERNAL MEDICINE - Diagnosis and surgical treatment of diseases of the internal organs such as the heart, liver and lungs.

NEUROLOGICAL SURGERY - Diagnosis and surgical treatment of the brain, the spinal cord and nerve disorders.

OBSTETRICS AND GYNECOLOGY - Diagnosis and treatment of diseases of the female reproductive organs and also the care of women during and immediately following pregnancy.

OPTHALMOLOGY - Diagnosis and treatment, including surgery, of diseases or defects of the eye.

PATHOLOGY - Study and interpretation of changes in organs, tissues, and cells as well as alterations in body chemistry.

PEDIATRICS - Prevention, diagnosis, and treatment of children's diseases.

PHYSICAL MEDICINE AND REHABILITATION - Diagnosis of disease or injury in the various systems and areas of the body and treatment by means of physical procedures as well as treatment and restoration of the convalescent and physically handicapped patient.

PLASTIC SURGERY - Deals with corrective or reparative surgery to restore deformed or mutilated parts of the body or improve facial or body features.

PREVENTIVE MEDICINE - Prevention of disease and promotion of health through epidemiogical studies and public health measures.

PSYCHIATRY AND NEUROLOGY - Diagnosis and treatment of emotional disturbances, mental disorders, and organic diseases affecting the nervous system.

RADIOLOGY - Diagnosis and treatment of disease through the use of radiant energy, including X-rays, radium and cobalt 60.

THORACIC SURGERY - Diagnosis and operative treatment of diseases of the chest - those involving the heart, lungs or large blood vessels within the chest.

UROLOGY - Diagnosis and treatment of diseases and disorders of the kidneys, bladder, ureters and urethra, and the male reproductive organs.

GENERAL SURGERY - Diagnosis and operative treatment without limitation to specific organic systems.

ORTHOPEDIC SURGERY - Diagnosis and surgery of bones and joints.

EAR, NOSE, AND THROAT - Medical and surgical treatment of the ears, nose, and throat.

PUBLIC HEALTH - Prevention and control of communicable and environmental diseases.

PODIATRIST

DESCRIPTION: Podiatrists diagnose and treat diseases and deformities of the feet. The problems they deal with range from a simple corn to foot difficulties requiring foot surgery, special shoes or foot appliances. They prescribe drugs, use physical therapy, and to help in diagnosis they take X-rays of the feet and utilize laboratory and diagnostic tests. Podiatrists must be alert to a patient's general health so they refer some cases to other medical specialists for further treatment. Since probably 3 out of 4 people have foot troubles, a very real gap in health service is being filled by the qualified podiatrist.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	College Prep.	4 years
2. College	Biol., Chem., Eng., Phys., Zoology	2 years
3. College of Podiatry		4 years
4. Internship		9 months

SCHOOLS:

California College of Podiatry
1770 Eddy Street
San Francisco, California 94115

Illinois College of Podiatry
1327 North Clark Street
Chicago, Illinois 60610

Maurice J. Lewi College of Podiatry
53 East 124th Street
New York, New York 10035

Ohio College of Podiatry
2057 Cornell Road
Cleveland, Ohio 44106

Pennsylvania College of Podiatry
Rine at Eighth Street
Philadelphia, Pennsylvania 19107

BASIC EXPENSES: The following is from the California College of Podiatry, 1969-70, and does not include living expenses.

1. Tuition, $450
2. Textbooks, $75-$100
3. Lab Fees, $100

OPPORTUNITIES: The latest figures indicated nearly all of the approximately 8,000 podiatrists actively engaged in the profession were in private practice. A few who held full-time salaried positions worked mainly in hospitals, podiatry colleges, in industry or for other podiatrists. A few were employed by the Veterans Administration; others were comissioned officers in the Armed Forces. Women represented between 3-4% of the profession. It is estimated that 10,000 more podiatrists will be needed by 1970.

SALARIES:

STARTING	AVERAGE	TOP
$8,000	$17,500	$20,000

ADDITIONAL INFORMATION: Write: American Podiatry Association
20 Chevy Chase Circle, N.W.
Washington, D.C. 20015

RADIOLOGIC TECHNOLOGIST

DESCRIPTION: Radiologic technologists operate X-ray equipment under the general direction of physicians. They also prepare patients for X-ray, keep the equipment in good working order, process film, and teach X-ray technique to students.

SCHOOLS:

Columbus Hospital
1601 Second Avenue North
Great Falls, Montana 59401

Billings Deaconess Hospital
2813 Ninth Avenue North
Billings, Montana 59102

Montana Deaconess Hospital
1101 26th Street South
Great Falls, Montana 59401

St. James Community Hospital
400 South Clark Street
Butte, Montana 59701

St. Patrick Hospital
500 West Broadway
Missoula, Montana 59801

St. Vincent's Hospital
2915 12th Avenue North
Billings, Montana 59102

OPPORTUNITIES: Radiologic technologists work in civil and Federal hospitals, clinics, doctor's offices, health departments, industrial medical departments and in training schools. The American Society of Radiologic Technologists reports that the demand for technologists is much greater than the number of persons expected to graduate from approved courses in X-ray technology.

SALARIES:

STARTING	AVERAGE	TOP
$5,000	$8,000	$12,000

ADDITIONAL INFORMATION: Write: American Society of Radiologic Technologists
645 North Michigan Avenue
Chicago, Illinois 60611

SANITARIAN

DESCRIPTION: The sanitarian is interested in solving many environmental health problems, usually those of a biological or chemical nature. He inspects restaurants, grocery stores, dairy plants, sewerage systems, schools, industrial plants, ships, swimming pools, planes and trains, to name but a few. His purpose is to see that our daily environment is as clean as possible; this includes the food we eat, the houses we live in and the places we work or play.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	College Prep.	4 years
2. College	Chemistry, Biology, Soc. Science Special training in sanitary science, dairy science and entomology	4 years

SCHOOLS: Montana State University
Bozeman, Montana 59715

BASIC EXPENSES: Tuition, fees, and living costs vary between schools. The school selected by the student will be able to provide information on expenses.

OPPORTUNITIES: Sanitarians are employed in state, city or county health departments. Skilled sanitarians are also in demand by certain industries that use natural resources. Vacancies occur regularly. The continuing trend toward urbanization plus the development of new industrial processes is producing an increasing need for sanitarians. There are overseas positions with the World Health Organization.

SALARIES:

STARTING	AVERAGE	TOP
$7,000	$9,000	$12,000-16,000 (more in private industry)

ADDITIONAL INFORMATION: Write: National Association of Sanitarians
Lincoln Building, Room 208
1550 Lincoln Street
Denver, Colorado 80203

VETERINARIAN

DESCRIPTION: Veterinarians keep animals free from disease by vaccinating them and teaching their owners how to feed and care for them properly. He gives medical or surgical care to sick or injured animals. And, finally, he works to protect and promote human health. His observations, research and treatments have been applied in bettering man's health in the fields of surgery, internal medicine, cancer, tuberculosis and chronic diseases. He plays an important part in protecting human beings from the various diseases that can spread from animals to man.

EDUCATION:

SCHOOL	STUDY	TIME
1. High School	College Prep.	4 years
2. College	Science, Biol., Chem.	2-4 years
3. School of Veterinary Medicine*		

SCHOOLS: Montana State University
Bozeman, Montana 59715
(Pre-Veterinary Medicine)

Most accredited schools offer pre-vet courses.

OPPORTUNITIES: About two-thirds of all veterinarians are engaged in private practice. The remainder work in government service, research, teaching, industry, and the Veterinary Corps of the Army and Air Force.

SALARIES:

STARTING	AVERAGE	TOP
$6-8,000	$13,255	$20,000 (1 out of 7 vets)

ADDITIONAL INFORMATION: Write: American Veterinary Medical Association
600 South Michigan Avenue
Chicago, Illinois 60605

*There are no graduate schools of Veterinary Medicine in Montana.

CAREERS IN SCIENTIFIC RESEARCH AND TEACHING RELATED TO MEDICINE

The biological sciences are concerned with the world of living things - men and microbes, wild and domestic animals, plants and insects, birds and fish. Some scientists in this field conduct research to expand our knowledge about living organisms; others teach in colleges and universities. Still others apply biological knowledge to the solution of practical problems, such as the development of new drugs and vaccines or new strains of plants.

A list of the work of some biological scientists follows:

Microbiologists
Zoologists
Agronomists
Anatomists
Biochemists
Biophysicists
Embryologists
Entomologists
Geneticists
Horticulturists
Husbandry specialists
Nutritionists
Pathologists
Pharmacologists
Physiologists
Phytopathologists

Where to go for more information:

American Institute of Biological Sciences
2000 P Street N.W.
Washington, D.C. 20036

Federation of American Societies for Experimental Biology
9650 Wisconsin Avenue N.W.
Washington, D.C. 20014

Office of Personnel
U.S. Department of Agriculture
Washington, D.C. 20250

Employment Officer
U.S. Department of Health, Education and Welfare
National Institutes of Health
Bethesda, Maryland 20014

CAREER INFORMATION SOURCES

NOTE: The student should be directed to write one or more of the following associations for information on his specific career choice. Most will provide some or all of the following:

1. Descriptive pamphlets on the career
2. Scholarships/loans information
3. Accredited schools
4. Admission requirements
5. Career opportunities

AIR FORCE NURSE CORPS Office of the Surgeon General Hq. USAF Washington, D.C. 20330	military nursing
AMERICAN ACADEMY OF GENERAL PRACTICE Volker Boulevard at Brookside Kansas City, Missouri 64112	general (family) medicine
AMERICAN ACADEMY OF PEDIATRICS Box 1034, 1801 Hinman Evanston, Illinois 60204	pediatric medicine
AMERICAN ACADEMY OF PHYSICAL MEDICINE & REHABILITATION 30 North Michigan Avenue Chicago, Illinois 60602	physical medicine & rehabilitation
AMERICAN ASSOCIATION FOR INHALATION THERAPY 4075 Main Street, Suite 316 Riverside, California 92501	inhalation therapy
AMERICAN ASSOCIATION OF DENTAL SCHOOLS 211 East Chicago Avenue Chicago, Illinois 60611	dentist
AMERICAN ASSOCIATION OF INHALATION THERAPISTS 332 South Michigan Avenue Chicago, Illinois 60604	inhalation therapy

AMERICAN ASSOCIATION OF MEDICAL ASSISTANTS, INC. 200 E. Ohio Street Chicago, Illinois 60611	clerical & receptionist careers in doctor's office
AMERICAN ASSOCIATION OF MEDICAL RECORD LIBRARIANS 211 East Chicago Avenue Chicago, Illinois 60611	medical record library science medical record technology
AMERICAN ASSOCIATION OF NURSE ANESTHETISTS 3010 Prudential Plaza Chicago, Illinois 60601	nurse anesthetists
AMERICAN CANCER SOCIETY 219 East Forty-Second Street New York, New York 10017	careers in cancer research & administration
AMERICAN CHEMICAL SOCIETY 1155 Sixteenth Street, N.W. Washington, D.C. 20006	chemical medicine
AMERICAN COLLEGE OF HOSPITAL ADMINISTRATORS 840 North Lake Shore Drive Chicago, Illinois 60611	hospital administrators
AMERICAN COLLEGE OF NURSE MIDWIVES 50 East 92 Street New York, New York 10028	nursing
AMERICAN DENTAL ASSISTANTS ASSOCIATION 211 East Chicago Avenue Chicago, Illinois 60611	dental assistant
AMERICAN DENTAL ASSOCIATION 211 East Chicago Avenue Chicago, Illinois 60611	dentistry & allied fields
AMERICAN DENTAL HYGIENISTS ASSOCIATION 211 East Chicago Avenue, Room 1616 Chicago, Illinois 60611	dental hygienist

AMERICAN DIETETIC ASSOCIATION 620 North Michigan Avenue Chicago, Illinois 60611	dietitian & allied fields
AMERICAN HEART ASSOCIATION 44 East Twenty-Third Street New York, New York 10010	heart research & administration
AMERICAN HOME ECONOMICS ASSOCIATION 1600 Twentieth Street, N.W. Washington, D.C. 20009	hospital-home economist
AMERICAN HOSPITAL ASSOCIATION 840 North Lake Shore Drive Chicago, Illinois 60611	hospital careers hospital administration
AMERICAN INDUSTRIAL HYGIENE ASSOCIATION 14125 Prevost Street Detroit, Michigan 48227	industrial hygienist
AMERICAN JOURNAL OF ART THERAPY Box 4918 Washington, D.C. 20008	occupational therapy vocational therapy
AMERICAN MEDICAL ASSOCIATION 535 North Dearborn Street Chicago, Illinois 60610	medicine & allied health careers
AMERICAN MEDICAL RECORD ASSOCIATION 211 East Chicago Avenue Chicago, Illinois 60611	medical record librarian
AMERICAN MEDICAL WOMEN'S ASSOCIATION 1740 Broadway New York, New York 10019	women in medical positions
AMERICAN NATIONAL RED CROSS Seventeenth and D Streets, N.W. Washington, D.C.	health administration Red Cross medical programs

AMERICAN NURSES' ASSOCIATION ANA-NLN Committee on Nursing Careers 10 Columbus Circle New York, New York 10019	nursing
AMERICAN NURSES' FOUNDATION 10 Columbus Circle New York, New York 10019	nursing
AMERICAN NURSING HOME ASSOCIATION 1025 Connecticut Avenue, N.W. Washington, D.C. 20036	nursing home administration & allied fields
AMERICAN OCCUPATIONAL THERAPY ASSOCIATION 251 Park Avenue South New York, New York 10010	occupational therapy
AMERICAN OPTOMETRIC ASSOCIATION 7000 Chippewa Street St. Louis, Missouri 63119	optometry
AMERICAN ORTHOPTIC COUNCIL 3400 Massachusetts Avenue, N.W. Washington, D.C. 20007	vision rehabilitation
AMERICAN ORTHOTIC & PROSTHETIC ASSOCIATION 919 Eighteenth Street, N.W. Washington, D.C. 20006	making & fitting of artificial limbs
AMERICAN OSTEOPATHIC ASSOCIATION 212 East Ohio Street Chicago, Illinois 60611	osteopathy
AMERICAN PHARMACEUTICAL ASSOCIATION 2215 Constitution Avenue, N.W. Washington, D.C. 20037	pharmacy
AMERICAN PHYSICAL THERAPY ASSOCIATION 1740 Broadway New York, New York 10019	physical therapy

AMERICAN PHYSIOLOGICAL SOCIETY 9650 Rockville Pike Bethesda, Maryland 20014	physiology
AMERICAN PODIATRY ASSOCIATION 20 Chevy Chase Circle, N.W. Washington, D.C. 20015	podiatry
AMERICAN PSYCHIATRIC ASSOCIATION 1700 Eighteenth Street, N.W. Washington, D.C. 20009	psychiatrist
AMERICAN PSYCHOLOGICAL ASSOCIATION 1200 Seventeenth Street, N.W. Washington, D.C. 20036	psychologist mental health
AMERICAN PUBLIC HEALTH ASSOCIATION 1740 Broadway New York, New York 10019	public health careers
AMERICAN RED CROSS NURSING PROGRAMS National Hq. 17th & D Sts., N.W. Washington, D.C. 20006 Area Offices: 4050 Lindell Blvd., St. Louis, Mo. 63108 Box 3673, San Francisco, Calif. 94119	nursing
AMERICAN REHABILITATION COUNSELING ASSOCIATION 1605 New Hampshire Avenue Washington, D.C. 20009	rehabilitative medicine
AMERICAN SOCIETY FOR PHARMACOLOGY & EXPERIMENTAL THERAPEUTICS, INC. 9650 Rockville Pike Bethesda, Maryland 20014	pharmacy research pharmacy
AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS 9650 Rockville Pike Bethesda, Maryland 20014	biological medicine
AMERICAN SOCIETY OF CLINICAL PATHOLOGISTS 710 South Wolcott Avenue Chicago, Illinois 60612	pathology

AMERICAN SOCIETY OF HOSPITAL PHARMACISTS 4630 Montgomery Avenue Washington, D.C. 20014	pharmacy (hospital)
AMERICAN SOCIETY OF MEDICAL TECHNOLOGISTS Suite 1600, Hermann Professional Bldg. Houston, Texas 77025	medical technology
AMERICAN SOCIETY OF RADIOLOGIC TECHNOLOGISTS 645 North Michigan Avenue Chicago, Illinois 60611	radiologic technologist (X-ray)
AMERICAN SOCIETY OF SAFETY ENGINEERS 5 North Wabash Avenue Chicago, Illinois 60602	safety engineering
AMERICAN VETERINARY MEDICAL ASSOCIATION 600 South Michigan Avenue Chicago, Illinois 60605	veterinary & allied fields
ARMY NURSE CORPS Office of the Surgeon General U. S. Army Washington, D.C. 20314	military nursing
ARTHRITIS FOUNDATION 1212 Avenue of the Americas New York, New York 10036	arthritic medicine & administration
ASSOCIATION OF AMERICAN MEDICAL COLLEGES 1346 Connecticut Avenue, N.W. Washington, D.C. 20036	medicine
ASSOCIATION OF MEDICAL ILLUSTRATORS 738 Keystone Avenue River Forest, Illinois 60305	medical illustrators (artist)
ASSOCIATION OF OPERATING ROOM NURSES 8085 E. Prentice Englewood, Colorado 80110	operating room nurses

ASSOCIATION OF UNIVERSITY PROGRAMS IN HOSPITAL ADMINISTRATION One Dupont Circle, Room 420 Washington, D.C. 20005	hospital administration
BIOLOGICAL PHOTOGRAPHIC ASSOCIATION, INC. P. O. Box 12866 Philadelphia, Pennsylvania 19108	photography in medicine
BLUE CROSS ASSOCIATION 840 North Lake Shore Drive Chicago, Illinois 60611	general health careers
CATHOLIC HOSPITAL ASSOCIATION 1438 S. Grand Blvd. St. Louis, Missouri 63104	health careers in Catholic hospitals
CONFERENCE OF CATHOLIC SCHOOLS OF NURSING 1438 S. Grand Blvd. St. Louis, Missouri 63104	nursing in Catholic hospitals
HOSPITAL FINANCIAL MANAGEMENT ASSOCIATION 840 North Lake Shore Drive Chicago, Illinois 60611	hospital business administration
INSTITUTE OF FOOD TECHNOLOGISTS 221 N. LaSalle Street Chicago, Illinois 60601	food technologists
INTERSOCIETY COMMITTEE ON PATHOLOGY INFORMATION 9650 Rockville Pike Bethesda, Maryland 20014	pathology
MEDICAL LIBRARY ASSOCIATION 919 North Michigan Avenue, Suite 1601 Chicago, Illinois 60611	medical library science
NATIONAL ASSOCIATION FOR MENTAL HEALTH 10 Columbus Circle New York, New York 10019	mental health

NATIONAL ASSOCIATION FOR MUSIC THERAPY, INC.
P. O. Box 610
Lawrence, Kansas 66044

music in medical therapy

NATIONAL ASSOCIATION FOR PRACTICAL NURSE EDUCATION AND SERVICE
1465 Broadway
New York, New York 10036

practical nursing

NATIONAL ASSOCIATION FOR RETARDED CHILDREN
420 Lexington Avenue
New York, New York 10017

health careers with retarded children

NATIONAL ASSOCIATION OF HEARING AND SPEECH AGENCIES
919 18th Street, N.W.
Washington, D.C. 20006

hearing therapy
speech therapy

NATIONAL ASSOCIATION OF SANITARIANS
Lincoln Building, Room 208
1550 Lincoln Street
Denver, Colorado 80203

environmental health

NATIONAL ASSOCIATION OF SOCIAL WORKERS
2 Park Avenue
New York, New York 10016

social work

NATIONAL COMMISSION FOR SOCIAL WORK CAREERS
Two Park Avenue
New York, New York 10016

social work

NATIONAL COMMITTEE FOR CAREERS IN MEDICAL TECHNOLOGY
1501 New Hampshire Avenue, N.W.
Washington, D.C. 20036

medical technology

NATIONAL COUNCIL ON ALCOHOLISM
2 East 103 Street
New York, New York 10029

health careers in alcoholism rehabilitation

NATIONAL EASTER SEAL SOCIETY FOR CRIPPLED CHILDREN AND ADULTS 2023 West Ogden Avenue Chicago, Illinois 60012	health careers in rehabilitation
NATIONAL ENVIRONMENTAL HEALTH ASSOCIATION 1550 Lincoln Street Denver, Colorado 80203	environmental health
NATIONAL EXECUTIVE HOUSEKEEPERS ASSOCIATION, INC. Business and Professional Bldg. Gallipolis, Ohio 45631	hospital housekeeping
NATIONAL FEDERATION OF LICENSED PRACTICAL NURSES 250 West 57 Street New York, New York 10019	practical nursing
NATIONAL KIDNEY FOUNDATION 315 Park Avenue South New York, New York 10010	kidney medicine, research, administration
NATIONAL LEAGUE FOR NURSING 10 Columbus Circle New York, New York 10019	nursing
NATIONAL MEDICAL ASSOCIATION 520 W Street, N.W. Washington, D.C. 20001	medicine & allied fields (minority groups in medical fields)
NATIONAL MULTIPLE SCLEROSIS SOCIETY 257 Park Avenue South New York, New York 10010	multiple sclerosis medicine & research administration
NATIONAL REHABILITATION COUNSELING ASSOCIATION 1522 K Street, N.W. Washington, D.C. 20005	rehabilitation counseling

NATIONAL SOCIETY FOR CRIPPLED CHILDREN AND ADULTS
2023 West Ogden Street
Chicago, Illinois 60612

occupational therapy
physical therapy
rehabilitation counseling
speech and hearing therapy
special education

NATIONAL SOCIETY FOR MEDICAL RESEARCH
1330 Massachusetts Avenue, N.W.,Suite 103
Washington, D.C. 20005

medical research

NATIONAL SOCIETY FOR THE PREVENTION OF BLINDNESS
79 Madison Avenue
New York, New York 10010

preventative medicine
administration

NATIONAL STUDENT NURSES' ASSOCIATION
10 Columbus Circle
New York, New York 10019

nursing

NATIONAL TUBERCULOSIS AND RESPIRATORY DISEASE ASSOCIATION
1740 Broadway
New York, New York 10019

medicine & allied fields
administration

NAVY NURSE CORPS
Nursing Division Bureau of Medicine and Surgery
Navy Department
Washington, D.C. 20390

military nursing

NURSES EDUCATIONAL FUNDS
10 Columbus Circle
New York, New York 10019

nursing

REGISTRY OF MEDICAL TECHNOLOGISTS
American Society of Clinical Pathologists
710 South Wolcott Avenue
Chicago, Illinois 60612

medical technologists

SOCIETY OF PUBLIC HEALTH EDUCATORS, INC.
419 Park Avenue South
New York, New York 10016

public health

U. S. ATOMIC ENERGY COMMISSION Division of Technical Information Extension Education Services Section P. O. Box 62 Oak Ridge, Tennessee 37830	nuclear medicine administration
U. S. FOOD AND DRUG ADMINISTRATION Washington, D.C. 20201	public health administration
U. S. OFFICE OF EDUCATION Bureau of Adult Vocational & Library Programs Health Occupations - Division of Vocational & Technical Education Washington, D.C. 20202	medicine & allied careers
PUBLIC HEALTH SERVICE National Institutes of Health Bureau of Health Professions Education & Manpower Training Information Office 9000 Rockville Pike Bethesda, Maryland 20014	public health
SOCIAL & REHABILITATION SERVICE U. S. Department of Health, Education, and Welfare Washington, D.C. 20201	rehabilitation
UNITED CEREBRAL PALSY ASSOCIATION 321 West Forty-Fourth Street New York, New York 10036	rehabilitation (medical and allied fields) special education speech therapy
VETERANS ADMINISTRATION Office of Personnel (Code 054) Washington, D.C. 20430	medical & allied careers in veterans hospitals

BIBLIOGRAPHY

ON

FINANCING A CAREER IN THE HEALTH PROFESSIONS

By

Kenneth R. Tintinger, President-Elect
Montana Personnel and Guidance Association

College Charts: 1970-1971. Moravia, N.Y.: Chronical Guidance Publications, Inc., 1970.

College Work-Study Employment Directory. Bozeman: Office of Students Financial Aid, Montana State University. (Annual)

Directory of Approved Allied Medical Educational Programs. Chicago: American Medical Association, 1971.

Directory of Financial Assistance Available to Students in Montana. Helena: State of Montana Department of Public Instruction.

Directory of Montana Post-Secondary-Vocational-Technical Education. Helena: State of Montana Department of Public Instruction. (1970)

Do You Want To Be A Nurse? New York: National League for Nursing, 1970.

Financial Aid. Great Falls: College of Great Falls, 1970.

Financial Aid: Awards, Scholarships, Loans, Prizes. Missoula: University of Montana, 1970.

Financial Aid For Higher Education. Washington, D.C.: Department of Health, Education & Welfare, U.S. Printing Office, 1968.

Fine, Benjamin. Barron's Profiles of American Colleges. Revised 1969 Edition, New York: Barron's Educational Series, Inc., 1970.

Health Careers Guidebook. Washington, D.C.: Bureau of Employment Security, U.S. Employment Service, Gov't. Printing Office.

Hopke, William, ed. The Encyclopedia of Careers and Vocational Guidance. Chicago: J. G. Ferguson Publishing Co., 1967.

Horizons Unlimited. Chicago: A hand book describing rewarding career opportunities in medicine and allied fields. Eighth Ed. American Medical Association. (1970)

Lovejoy, Clarence E. Lovejoy's Career and Vocational School Guide. New York: Simon and Schuster, 1969.

Miller, Shirley, Et Al. Directory of Financial Assistance Available To Students In Montana For High School, Post-High School Education. Billings: Trades Council, 1969.

Montana Manpower 1975. Helena: Montana State Employment Service, 1971.

Occupational Outlook Handbook. Bulletin No. 1650. Washington, D.C.: U. S. Department of Labor, U. S. Government Printing Office, 1970-71.

Regional Medical Programs Service. Progress report. Washington, D.C.: U. S. Gov't. Printing Office, 1970.

Student Aid Annual 1970-1971. Moravia, N.Y.: Chronical Guidance Publications, Inc., 1970.

"Student Aid Bulletin: Scholarships, Loans, & Awards." Vol. 22, No. 1. Moravia, N.Y.: Chronical Guidance Publications, Inc., 1970.

Toy, Henry, Federal Dollars for Scholars. Washington, D.C.: NuToy, Inc., 1970.

Turner, David R. College Scholarships. New York: ARco Publishing Company, Inc., 1968.

SCHOLARSHIP AND LOAN INFORMATION

Since there is a drastic shortage of people pursuing health careers, many organizations offer financial assistance to health career students. The following scholarships are available to students who are pursuing health careers. Many have no limitation on area of study. It is advisable to check the entire list!

GENERAL SCHOLARSHIP INFORMATION

For 33 years, THE ELKS FOUNDATION SCHOLARSHIP AWARDS have made it possible for many students to continue their college courses. In 1969, $181,000 in scholarships was awarded to 150 students ranging from $800 to $2,500. Any student in the graduating class of a high or college preparatory school or in any undergraduate class (except senior) of an accredited college, who is a citizen of the U.S.A. and resident within the jurisdiction of the Benevolent & Protective Order of Elks, may file an application. Scholarship, citizenship, personality, leadership, perseverance, resourcefulness, patriotism, general worthiness, and financial need are the criteria by which applicants will be judged. Application blanks should be obtained from an officer of the local Elk Lodge or the Secretary of the State Elks Association and must be filed on or before February 15th with the Secretary of Lodge Foundation Chairman of the B.P.O. Elks Lodge in the city in which the applicant is resident.

KNIGHTS OF COLUMBUS "Pro Deo and Pro Patria Scholarship Trust" for undergraduate scholarships, The Knights of Columbus has an established trust fund which will provide annually $1,000 scholarships to members, to sons, and daughters, brothers and sisters of living or deceased members. The fund will also annually provide two $1,000 scholarships to Columbian Squires.

Awards will be made on the basis of academic excellence regardless of need, and may be renewed annually subject to satisfactory academic performance.

Selection will be made after a review of applicants' secondary school record, class rank, recommendation of principal or headmaster and the results of the College Entrance Examination Board tests.

All scholarship applicants must have applied for or to have been admitted as freshmen at the Catholic University of America.

When writing for an application form to the Secretary, Committee Fellowship and Scholarship, the Catholic University of America, Washington, D.C. 20017, membership in a Knights of Columbus council must be verified to show the parent, brother or applicant is a member or, if deceased, was a member in good standing at the time of death. Final filing date of applications is February 1 with award announcements to be made in May.

GENERAL MOTORS CORPORATION has a scholarship program that offers 300 four-year college scholarships each year. Applicants must be high school seniors and U.S. citizens. Candidates apply directly to the colleges at which General Motors Scholarships are available. College scholarship committees in more than 200 participating institutions select the awardees. Stipends range from $200 to $2,000 a year depending on demonstrated need. There is no limitation on course of study or career. Both young women and young men are eligible. Descriptive materials are available in the secondary schools early in the school year. For further information write to the General Motors Scholarship Program, 8-163 GM Bldg., Detroit, Michigan 48202.

MILITARY HEALTH CAREER programs in Dietetics, Physical Therapy, and Occupational Therapy enable qualified students to complete their professional education under Army sponsorship. Foods and nutrition or Institution Management majors may participate as junior and/or senior students in the Army Student Dietitian Program. A similar program is available to students in Occupational Therapy. In both programs, students earn over $250 monthly. The Army conducts approved dietetic internships, occupational therapy clinical affiliations and a certificate course in physical therapy for selected college graduates. Detailed information is available from The Surgeon General, Department of the Army, ATTN. MEDPT - RS, Washington, D.C. 20315.

THE HEALTH PROFESSIONS SCHOLARSHIP PROGRAM - Under this program Federally supported scholarship awards are available at participating schools of medicine, dentistry, osteopathy, optometry, pharmacy, podiatry, and veterinary medicine for students of exceptional financial need to pursue a full-time course of study. The amount of an individual scholarship depends upon the student's need as determined by the school; however, scholarship application forms may be obtained from the participating school selected by the student. General information and list of participating schools are available from the Bureau of Health Professions Education and Manpower Training National Institutes of Health, 9000 Rockville Pike, Bethesda, Maryland 20014.

THE ACTIVITIES OF THE ROTARY FOUNDATION

The program of the Rotary Foundation has been expanded significantly in recent years. Today the four major educational activities of the Foundation are known as;

Rotary Foundation Awards for International Understanding:

Graduate Fellowships
Undergraduate Scholarships
Technical Training
Group Study Exchange

One Rotary Foundation award -- Graduate Fellowship, Undergraduate Scholarship or Technical Training -- is offered to every district every year. In the past each district was eligible to submit a candidate for a Graduate Fellowship every other year and in alternate years a candidate for either an Undergraduate Scholarship or a Technical Training award. Beginning with the 1968-69 Rotary year, however, every district has the choice of submitting a candidate every year for any of these three awards -- whichever one it prefers.

Graduate Fellowships are awarded to highly qualified young men and women for a year of graduate study in a country other than their own. Graduate Fellows must be unmarried, age 20 through 28, and have a bachelor's degree or the equivalent. The award covers all travel, living and educational expenses for one academic year.

Undergraduate Scholarships are the newest of the Foundation's activities. They are similar to the Graduate Fellowships in most respects, the major difference being that they are awarded to highly qualified young men and women for a year of undergraduate study abroad. Undergraduate Scholars must be unmarried, age 18 through 24, and have completed two years or more of university level work, but not have attained a bachelor's degree or the equivalent.

Technical Training awards are made to young technicians and artisans for up to a year of study abroad in a wide variety of technical fields. Awards are made to men only, either married or single, age 21 through 35 inclusive. There are no educational requirements except those established by the institution of training. The award covers all travel, living and training expenses for up to one year.

Group Study Exchange is an activity which provides travel grants to a team of six outstanding young men, age 25 through 35, who are engaged in a business or profession. During a two-month visit to a district outside their home country, together they visit communities, homes, schools, businesses, government offices and other institutions, seeking to learn through person-to-person contacts as much as possible about that country. Rotarians of the receiving, or host, district arrange the team's itinerary and provide meals, lodging, and transportation. The Rotary Foundation pays round-trip transportation between the two districts involved for the team and a Rotarian who accompanies it as the district governor's representative.

AID ASSOCIATION FOR LUTHERANS, AAL ALL-COLLEGE SCHOLARSHIP PROGRAM - Each year 100 scholarships are awarded to high school graduates ranging from $200 to $1,750 per year, depending on the financial need of the individual. Scholarships are renewable for three additional years, subject to continuing AAL membership and satisfactory academic progress. For further information write to Scholarships, Aid Association for Lutherans, Appleton, Wisconsin 54911. Secure application forms prior

to registration deadline date for required November or December SAT early in high school senior year.

THE NATIONAL ACHIEVEMENT SCHOLARSHIP PROGRAM for outstanding Negro students awards more than 300 scholarships annually. Candidates request consideration on the basis of scores on the National Merit Scholarship Qualifying Tests. Taken as second semester juniors or first semester seniors. Other qualifications are the same as for the National Merit Scholarship Program in which all Achievement candidates simultaneously participate. In 1969 the Achievement program will offer 250 National Achievement scholarships. The former carry a one-time stipend of $1,000 paid upon enrollment in an accredited U.S. college or university. Stipends of the latter are individually determined and are related to the student's financial need to attend the college of his choice within limits which may vary with sponsorship but generally fall in the range of $250 to $1,500 per year. Four-year Achievement progress toward a Bachelor's Degree in an accredited U.S. college or university. The program is administered by the National Merit Scholarship Corporation, 990 Grove Street, Evanston, Illinois 60201.

THE NATIONAL EASTER SEAL SOCIETY FOR CRIPPLED CHILDREN AND ADULTS has available the following scholarships for specialized training for work with the physically handicapped: (1) Speech Pathology and Audiology - Graduate Level - co-sponsored with Alpha Chi Omega National Women's Fraternity; (2) Physical Therapy and Occupational Therapy - Senior Year, Clinical Affiliation or Certificate Program - co-sponsored with Kappa Delta Phi Sorority; (3) Specialized Training in Minimal Brain Dysfunction - Scholarships are available through colleges and universities receiving training grants for summer programs in the identification and training of children with minimal brain damage - co-sponsored with Alpha Gamma Delta International Women's Fraternity. Additional information may be secured from the Scholarship Coordinator, National Easter Seal Society for Crippled Children and Adults, 2023 West Ogden Avenue, Chicago, Illinois 60612.

THE PROCTER & GAMBLE FUND provides aid-to-education programs which exceed $1,300,000 a year. The fund provides for (1) 188 scholarships; two-thirds for study in liberal arts colleges and one-third for the study of science or engineering in technical and engineering schools. These scholarships provide to the participating schools for a four-year period an amount equal to full tuition, plus annual allowance for fees, books, and supplies up to a maximum of $2,400 per year.

In addition, an unrestricted annual grant of $600 to the institution accompanies each scholarship. The schools select the recipients and allot funds to the participating students on the basis of financial need. (a) 37 new four-year scholarships, open to both men and women, are awarded each year at 37 selected colleges and universities; (b) 10 new four-year scholarships are awarded annually among 15 exclusively women's colleges. (2) Approximately 30 grants to chemistry, chemical engineering and mechanical engineering departments in support of graduate training; (3) unrestricted annual grants through 39 State and Regional Associations to some 500

colleges throughout America. (4) Unrestricted annual grants through the United Negro Fund to help support 33 accredited Negro colleges and universities. (5) Unrestricted annual grants to 14 leading universities. (6) Unrestricted annual grants to five leading graduate schools of education. (7) Unrestricted annual grants to six leading medical schools. (8) Contributions to graduate research, special projects and educational funds.

Detailed information should be secured from your high school counselor; however, if not available, write to the Procter & Gamble Scholarship Program, P.O. Box 599, Cincinnati, Ohio 45201. Applications should be made to the Director of Admissions of the school selected prior to mid December.

THE REHABILITATION SERVICES ADMINISTRATION provides teaching grants and traineeship grants to educational institutions, as well as grants to support training activities in state rehabilitation programs and in facilities for the mentally retarded. Individual traineeships are awarded by participating universities to selected graduate students interested in rehabilitation careers. Included are careers in physical medicine and rehabilitation, dentistry, physical therapy, occupational therapy, speech pathology and audiology, rehabilitation nursing, rehabilitation social work, prosthetics and rehabilitation psychology, rehabilitation counseling, recreation for the ill and handicapped, work evaluation and rehabilitation workshop administration, and other specialized fields such as rehabilitation of the blind, deaf, and mentally retarded. For a list of universities which award RSA traineeships, write to the Division of Training, Rehabilitation Service, Department of Health, Education, and Welfare, Washington, D.C. 20201.

TRAINING IN THE HEALTH, MEDICAL AND RELATED BIOLOGICAL SCIENCES - Training includes pre-doctoral and post-doctoral research fellowships, special research fellowships, and undergraduate and graduate training grants. Training is also available for medical graduates who have completed their internships. For information about these training opportunities write to the Career Development Review Branch, Division of Research Grants, National Institutes of Health, U.S. Public Health Service, Bethesda, Maryland 20014.

A VOCATIONAL REHABILITATION program is operated in every state to assist disabled people to achieve a gainful occupation. It provides personal counseling and guidance, medical examinations and needed restorative services, training and other services to people who have physical or mental disabilities which are handicaps to employment. Services to eligible disabled persons are provided by state agencies for vocational rehabilitation. For further information contact your nearest local office of the state vocational rehabilitation agency under state listings in the telephone book; write directly to the headquarters office, usually located in State Capitols.

SCHOLARSHIPS LISTED BY HEALTH PROFESSION

AUDIOLOGY AND SPEECH PATHOLOGY

The publications "Opportunities for Graduate Education in Speech Pathology" and "Guide to Graduate Training in Speech Pathology and Audiology" give specific financial information. Write to: American Speech and Hearing Association, 9030 Old Georgetown Road, Washington, D.C. 20014.

CHIROPRACTOR

THE AMERICAN CHIROPRACTIC ASSOCIATION offers scholarships and loan sources for students wishing to select chiropractic as a career. Further information may be secured by writing to the American Chiropractic Association, 2200 Grand Avenue, P.O. Box 1535, Des Moines, Iowa 50312, or from the admissions offices of the various chiropractic colleges: Lincoln Chiropractic, 920 East Broadway, Glendale, California 91205; National College of Chiropractic, 200 East Roosevelt, Lombard, Illinois; Northwestern College of Chiropractic, 2222 Park Avenue, Minneapolis, Minnesota; Texas Chiropractic College, 5912 Spencer Highway, Pasadena, Texas 77505; Logan College of Chiropractic, 7701 Florissant Road, St. Louis, Missouri; Columbia Institute of Chiropractic, 261 West 71st Street, New York, New York 10023.

DENTIST

Each of the nation's 50 dental schools offers scholarships to its students. Eligibility requests for a summary of scholarships are available and application forms can be secured by writing the school selected by the student. Loans for dental students are also available from each school through the American Fund for Dental Education, United Students Assistance Fund, Health Professions Educational Assistance Act and the National Defense Education Act. Information on loans available may also be obtained by writing the American Association of Dental Schools, 211 East Chicago Avenue, Chicago, Illinois 60611.

AFDE DENTAL SCHOLARSHIPS - The American Fund for Dental Education was created in 1955 by the dental profession and the dental industry to finance dental education research and provide student aid. AFDE Dental Scholarships for black students have been made possible by a grant from the W. K. Kellogg Foundation and support from other foundations, business and industry, and dental societies. An AFDE Scholarship provided you with up to $12,500 for 5 years of schooling. You receive as much as $2,500 for the final year of predental education in college and for each of the four years of dental school. Scholarships are for use towards your school expenses and living costs. Any black student preparing to enter his or her senior, junior or sophomore year

in college is eligible for an AFDE Dental Scholarship. Students entering dental school, or already in dental school, are not eligible. You will be considered on the basis of your academic background, your financial need and your character. Grades are important, but any student with an interest in dentistry is urged to apply. Deadline for applying is July 1 for study beginning in September. Selections are announced in August. American Fund for Dental Education, 211 East Chicago Avenue, Chicago, Illinois 60611.

OTHER FINANCIAL AID INFORMATION ON DENTISTRY: ADMISSION REQUIREMENTS OF AMERICAN DENTAL SCHOOLS is an annual publication of the American Association of Dental Schools. The booklet lists the specific requirements for admission to each dental school in the United States and Canada, and includes detailed information on financial aid available from each of these schools. The booklet is issued each September and presents the requirements for admission to the following year's freshman class. It is available at $2.00 per copy from: The American Association of Dental Schools, 211 East Chicago Avenue, Chicago, Illinois 60611.

DENTAL HYGIENIST

THE AMERICAN DENTAL HYGIENISTS' ASSOCIATION'S EDUCATIONAL TRUST FUND - The American Dental Hygienists' Association awards annually eight scholarships for dental hygiene students in the United States. The recipients are selected from applicants throughout the country and must have been enrolled for at least one year in academic dental hygiene education. Contact the American Dental Hygienists' Association, 211 East Chicago Avenue, Chicago, Illinois 60611.

DENTAL TECHNICIAN

22 DENTAL LABORATORY TECHNOLOGY SCHOLARSHIPS OFFERED BY AMERICAN FUND FOR DENTAL EDUCATION - Applicants must have a high school diploma. Scholarships may be awarded for the first or second year of dental laboratory technology school. For a listing of approved programs and scholarship information, write the AFD, 211 East Chicago Avenue, Chicago, Illinois 60611. Deadline for filing is July 1st. Awards will be announced in August for training programs beginning in September.

FOOD TECHNOLOGIST

INSTITUTE OF FOOD TECHNOLOGISTS administers fellowships and scholarships to studerts pursuing a program leading to a degree in the general field of Food Technology or Food Science. During the tenure of a fellowship or scholarship, winners must be enrolled in a recognized U.S. or Canadian educational institution. Freshmen (deadline date February 15) Sophomore (deadline date April 1) scholarships, thirty $500 awards. Junior and Senior Scholarships each $1,000. Graduate Fellowships, three

at $4,000 and eight at $1,000 (deadline date March 1). Applications available from School Department Heads or Institute of Food Technologists, 221 North LaSalle Street, Chicago, Illinois 60601.

THE NATIONAL RESTAURANT FOUNDATION-HEINZ SCHOLARSHIP AWARDS PROGRAM provides five college-level awards of $1,500 each ($500 per year over a three-year period, starting with the sophomore year in college). Matching payment up to a maximum of $500, each year, for satisfactory summer employment in the food service industry. Total award up to a maximum of $3,000. Scholarship winners chosen from among students undertaking, or planning to undertake, an educational program leading to a management career in the food service industry.

Eligibility: A student completing his first year of education in a four-year educational institution, or a student completing his first year of education at a junior/community college, but wants to continue his studies for the next three years in food service education at a four-year educational institution; or a student completing his second year in food service education at a junior/community college, but who wants to continue his studies to complete a Baccalaureate Degree program in food service education at a four-year educational institution.

Three junior/community college awards of $500 each, annually, over a two-year period, plus matching payment up to a maximum of $500 for satisfactory employment in the food service industry during the summer between his first and second years. Maximum awards $1,500. Student must be a high school graduate enrolled, or planning to enroll, in a program leading to an Associate Degree in Food Service Management. Applications may be secured from National Restaurant Foundation, 1530 North Lake Shore Drive, Chicago, Illinois 60610. Deadline date for filing applications is March 31.

HOSPITAL ADMINISTRATOR

THE AMERICAN COLLEGE OF HOSPITAL ADMINISTRATORS, 840 North Lake Shore Drive, Chicago, Illinois 60611, through its educational fund, has established a limited number of scholarship loans to assist worthy students to continue their professional education and training towards careers in hospital administration. These loans are available to students at two stages of their training: academic and residency. Committee by (1) students who have completed successfully one academic semester in an accredited graduate program in hospital administration, and, (2) students who are in their residency phase of graduate training in hospital administration.

MEDICAL RECORD LIBRARIAN

GRACE WHITING MYERS-MALCOLM T. MacEACHERN STUDENT LOAN FUND - ELIGIBILITY FOR LOAN: Persons are eligible to apply for a loan if they

have been accepted for enrollment into a school approved by the Council on Medical Education of the American Medical Association for the education of Medical Record Librarians or Medical Record Technicians. Students enrolled in a four-year course leading to a degree in Medical Record Science may apply for a loan at the completion of their third year of schooling. Registered Record Librarians who wish to study for baccalaureate or advanced degrees and have been accepted by regionally accredited colleges or universities as candidates for a degree may apply for a loan. A student to whom a loan is granted is required to carry a full course load for residence. The applicant need not be a citizen of the United States or territories.

TERMS OF LOAN: Registered Record Librarian applicants accepted for study for baccalaureate or advanced degrees may borrow up to $2,400 per year per student. Applicants approved to enter a school for Medical Record Librarians may borrow up to $1,500. Applicants approved to enter a school for Medical Record Technicians may borrow up to $500. No interest will be charged for the time the student is attending school nor for one year thereafter, 3% interest on second year following graduation, 4% on third year. The interest is charged only on unpaid balance. Loan may be pre-paid before it is due, without penalty. Entire loan is to be paid back within four years following the date the Promissory Note is signed. Persons granted a loan shall sign a Promissory Note with two endorsers. The endorsers of Promissory Notes shall be citizens of the United States and territories. Money for the loan shall be paid directly to the applicant. The number of loans granted to students enrolled in schools for Medical Record Technicians shall be limited to no more than two per year.

PROCEDURE FOR APPLICATION: Application forms may be secured from the Foundation of Record Education, American Association of Medical Record Librarians, 211 East Chicago Avenue, Chicago, Illinois 60611. Completed forms are to be returned to that office.

MEDICAL TECHNOLOGIST

Information on scholarships and loans is available by writing to the American Society of Medical Technologists, Education and Research Fund, Hermann Professional Building, Houston, Texas 77025.

Many AMERICAN MEDICAL ASSOCIATION-APPROVED SCHOOLS OF MEDICAL TECHNOLOGY and SCHOOLS OF CYTOTECHNOLOGY waive tuition and pay stipends to students. Three years of college with science courses are prerequisite to the year of hospital training which leads to certification as a Registered Medical Technologist, and two years of college for the six months' training and six months' apprenticeship necessary for certification as a Cytotechnologist. Tuition is also free at most certified LABORATORY ASSISTANT SCHOOLS. High school graduates are eligible for this one-year course which leads to certification under medical

auspices as a Certified Laboratory Assistant. Other scholarships for medical technology and cytotechnology students are also offered by some state pathology and medical technology societies, Cancer Societies and other organizations. A fact sheet on laboratory careers and a listing of medical technology and cytotechnology scholarships, as well as lists of the AMA-approved medical technology and cytotechnology schools, may be obtained by writing the Registry of Medical Technologists, 710 South Wolcott Avenue, Chicago, Illinois 60612. A list of the approved laboratory assistant schools may be obtained by writing: Board of Certified Laboratory Assistants, 710 South Wolcott Avenue, Chicago, Illinois 60612.

NURSE

ARMY STUDENT AND REGISTERED NURSE PROGRAMS enable selected nursing students to continue their education while they receive full pay and allowances as officer or enlisted personnel in the Army Reserve. The Student Nurse Program is available during the third year of a three-year nursing program or for the third and fourth years of a four-year program in nursing. The Registered Nurse Program provides an opportunity to continue nursing education for a period not to exceed two calendar years. Detailed information may be secured from Army Careers, U.S. Army Recruiting Command, Hampton, Virginia 23369.

THE EIGHT AND FORTY TUBERCULOSIS NURSING SCHOLARSHIPS FUND was established to assist nurses to secure advanced preparation for positions in either supervision, administration or teaching. The students are to have prospects of being employed in specific positions in hospitals, clinics, or health departments on completion of their education, and the position must have a full-time and direct relationship to tuberculosis control. Scholarship awards are $1,500 each. Full details relative to eligibility requirements may be secured from the local Eight and Forty Scholarship Chairman or The American Legion Education and Scholarship Program, Attention: Eight and Forty Scholarships, Box 1055, Indianapolis, Indiana 46206. Deadline, June 1. Awards announced on July 15.

NAVY NURSE CORPS CANDIDATE PROGRAM open to qualified junior and senior nursing students and registered nurses who are enrolled in baccalaureate or master's degree nursing programs accredited by the National League for Nursing. Tuition, salary and other allowances and benefits are provided by the Navy during the time of enrollment with the program. Persons given one year or less of subsidized training incur a two-year active duty obligation; those with over one year of subsidized training incur a three-year active duty obligation. For more complete information contact the nearest U.S. Navy Recruiting Station.

NURSES' EDUCATIONAL FUNDS - An organization which grants scholarships and fellowships to graduate nurses to equip them for advancement in nursing. Men and women qualifying for these awards study in nursing programs accredited by the National League for Nursing in colleges and

universities of their choice. Funds are contributed by nurses, business and industrial firms, organizations, and individuals. The executive committee determines the amount and number of awards each year on the basis of availability of funds and the nature of applications. Deadline for applications is February 1 preceding the fall for which award is made. Write for application forms or additional information to Nurses Educational Funds, 10 Columbus Circle, New York, N.Y. 10019.

NURSING RESEARCH - Predoctoral and postdoctoral fellowships for professional nurses are offered for graduate study in a university. Postdoctoral fellowships may be used also for training in a research center. Stipends are set according to individual needs. Applications are submitted to the Public Health Service at scheduled intervals (January 2, April 1 and October 1): awards are made within 3-4 months. A fellowship may be activated any time within 10 months after it is awarded. Write to the Research Grants Branch, Division of Nursing, Bureau of Health Professions Education and Manpower Training, National Institute of Health, Bethesda, Maryland 20014, for additional information about the research fellowship.

NURSE SCIENTIST GRADUATE TRAINEESHIP GRANTS PROGRAM - The traineeships are to enable graduate nurses who have baccalaureate or higher degrees to study full-time toward doctoral degrees in the biological, physical, or behavioral sciences to prepare them to function as nurse scientists. For further details write to the Research Grants Branch, Division of Nursing, Bureau of Health Professions Education and Manpower Training, National Institute of Health, Bethesda, Maryland 20014.

THE NURSING SCHOLARSHIP PROGRAM - Under this program Federally supported scholarship awards are available at participating schools of nursing which offer a program of nursing education leading to a diploma in nursing, associate degree in nursing, baccalaureate degree or equivalent degree in nursing, or graduate degree in nursing for students of exceptional financial need who need such financial assistance to pursue a full-time course of study. The amount of an individual scholarship depends upon the student's need as determined by the school; however, no scholarship may exceed $1,500 per year. Further information and application forms may be obtained from the participating school selected by the student. General information and lists of participating schools are available from the Bureau of Health Professions Education and Manpower Training, National Institute of Health, 9000 Rockville Pike, Bethesda, Maryland 20014.

PROFESSIONAL NURSE TRAINEESHIP PROGRAM - The traineeships are to enable graduate nurses to prepare for positions in administration, supervision, teaching and in clinical specialties. Traineeships are awarded for full-time academic study by the training institutions and provide tuition and fees as established by the school. Monthly stipends are also provided at the rate of $200 at the baccalaureate level, $200-300 at the postbaccalaureate level depending on the student's level of study, the years of

training, and the student's previous work experience as a professional nurse. A dependency allowance of $42 per month for each dependent is also allowed. Candidates are selected by the training institution. Information and lists of institutions offering traineeships are available from the Nurse Education and Training Branch Division of Nursing, Bureau of Health Professions Education and Manpower Training, National Institutes of Health, Bethesda, Maryland 20014.

PSYCHIATRIC-MENTAL HEALTH TRAINEESHIP PROGRAM - Traineeships are available for undergraduate, and graduate studies for nurses who intend to pursue a career in mental health. Support at the junior and senior levels of undergraduate education is for students who plan to continue study in psychiatric-mental health nursing at the master's level upon completion of the baccalaureate program. Support at the master's level is for study in psychiatric-mental health nursing, including community mental health nursing. Support at the post-master's, predoctoral and postdoctoral level is for nurses with a master's in psychiatric-mental health nursing for advanced study in psychiatric-mental health nursing and mental health related areas. Support for short-term and continuing education and training in special areas such as community mental health nursing, geopsychiatry and family therapy is also available. For details write to: Psychiatric Nursing Training Branch, Division of Manpower and Training Programs, National Institute of Mental Health, 5454 Wisconsin Avenue, Chevy Chase, Maryland 20015.

WALTER REED ARMY INSTITUTE OF NURSING PROGRAM enables selected high school graduates to obtain a bachelor's degree in nursing with most expenses paid by the Army. Participants are enlisted in the Army Reserve, and commissioned in the Army Nurse Corps Reserve following graduation and licensure. Detailed information is available at Army Recruiting Stations or by writing to Army Careers, U.S. Army Recruiting Command, Hampton, Virginia 23369.

OCCUPATIONAL THERAPY

ELKS NATIONAL FOUNDATION, 40 Court Street, Boston, Massachusetts. Amounts will vary some. Awarded to Occupational Therapy students, from Junior year up; college graduates accepted for Occupational Therapy postbaccalaureate courses. Restriction: work in field of cerebral palsy on completion. (Also award other scholarships to high school and college students).

NATIONAL ASSOCIATION OF AMERICAN BUSINESS CLUBS SCHOLARSHIP PROGRAM, P.O. Box 5127, High Point, North Carolina 27260. Amounts vary. Awarded to college juniors or seniors accepted for or in an approved Occupational Therapy course; also graduates eligible for postbaccalaureate courses. Basis: scholastic record, financial need. Restriction: no awards made to students receiving other scholarships. Apply by May 30 or October 31.

NATIONAL SOCIETY FOR CRIPPLED CHILDREN AND ADULTS, INC. - Personnel and Reporting Service, 2023 W. Ogden Avenue, Chicago, Illinois 60612. Amount: $100-500. Awarded to Occupational Therapy students for their senior year or clinical training period and college graduates accepted for an approved Occupational Therapy postbaccalaureate course. Basis: scholastic record, financial need, references. Restriction: must be U.S. citizen. Apply by May 15. May be administered at state level.

UNITED STATES AIR FORCE HEADQUARTERS, Office of the Assistant Surgeon General for Staffing and Education, Randolph AFB, Texas 78148. Amount: monthly salary as 2nd Lt. plus subsistence and monthly quarters allowance. Tuition, fees and related costs paid by students. Commission offered: students who have completed all but final 12 months of an approved Occupational Therapy course. Basis: high moral and physical qualification, interested in Air Force career. Restrictions: female, single between 21-28 years. U.S. citizen. Must serve in Air Force hospitals 3 years following completion. Apply between February 15 and February 28.

UNITED STATES ARMY MEDICAL SERVICE, Office of the Surgeon General, Attention: MEDPT-MP, Washington, D.C. 20135. a) Amount for all the active duty and allowance as 2nd Lt., amounting to approximately $450 monthly plus a $300 uniform allowance. Commission offered: students completing senior year in an accredited Occupational Therapy school or Occupational Therapy students with Baccalaureate Degrees. Serve 2 years, including affiliation. b) Army Student Occupational Therapy Program. Amount: approximately $250 monthly. 12-13 month program for college juniors and seniors. Basis: meet personal, physical and educational requirements of the Department of the Army. 21-28 years. U.S. citizen.

UNITED STATES NAVY, Chief, Medical Service Corps, Bureau of Medicine and Surgery, Navy Department, Washington, D.C. 20135. Amount: active duty pay and allowances as Ensign, Naval Reserve, plus one $300 payment for uniforms. Tuition, fees, and related costs are paid by students. Eligibility: students who have completed all but the final 12 months of an accredited Occupational Therapy course and are morally and physically qualified for commission in the Naval Reserve. Restrictions: U.S. citizen. Men must be between 21-32 and are required to serve on active duty for 4 years after reporting to their first assignment following completion of their professional training. Women must be between 18-32 and are required to serve on active duty for 2 years after reporting to their first assignment following completion of their professional training.

U.S. DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, Social and Rehabilitation Service, Washington, D.C. Apply through Occupational Therapy Director at college or university. Amount: $200-$3400 a year

depending on level of study, plus tuition and registration fee, awarded to students enrolled in an approved OT curriculum. Basis: scholastic record, aptitude, personality.

AMERICAN LEGION AUXILIARY, 777 North Meridian Street, Indianapolis, Indiana 46204. Restriction: children of Veterans. Check with local or state office of auxiliary.

AMVETS MEMORIAL SCHOLARSHIP, 1710 Rhode Island Ave., N.W., Washington, D.C. Restriction: child of deceased or totally disabled Veteran of World War II or Korean War.

NATIONAL HONOR SOCIETY, Executive Secretary, National Association of Secondary School Principals, 1201 16th Street, N.W., Washington, D.C. 20036.

NATIONAL SCHOLARSHIP SERVICE & FUND FOR NEGRO STUDENTS, 6 East 82nd Street, New York, New York. Restrictions: Negroes only.

ROUND TABLE INTERNATIONAL, 279 Bay View Avenue, San Jose, California 95127. Application only through local Rotary Club.

OPTOMETRIST

AMERICAN OPTOMETRIC ASSOCIATION and its affiliated State Associations offer numerous scholarships at the professional level. Pamphlets on career opportunities and information about scholarships for study of Optometry are available by writing to the American Optometric Association, 7000 Chippewa Street, St. Louis, Missouri 63119.

OSTEOPATH

THE AMERICAN OSTEOPATHIC ASSOCIATION and the Auxiliary to the American Osteopathic Association annually award twenty National Osteopathic College Scholarships of $1,500 each. These awards are based on academic grades for at least 3 years of undergraduate college, need, motivation to become an osteopathic physician, personality and evidences of leadership. Application forms may be secured from the Scholarship Committee Chairman, 212 East Ohio Street, Chicago, Illinois 60611. Completed applications must be received by the Scholarship Chairman by May 1. Individual schools of osteopathy and some state associations also have information on numerous scholarship and loan funds.

PHARMACIST

NATIONAL SCHOLARSHIPS - American Foundation for Pharmaceutical Education provides a number of $200 undergraduate scholarship grants to superior students in need of financial assistance. These are limited to students in the last three years of the college program. Applications must be made to Dean of pharmacy college.

NATIONAL LOANS - The Federal Government, through the National Defense Education Act of 1958, allows a student to borrow up to $1,000 per year through the participating college. The Women's Auxiliary of the American Pharmaceutical Association provides a loan fund for women students in the last two years of professional study, available through the college of pharmacy. The Dargavel Foundation provides a loan fund for students of pharmacy. Applications must be approved by the Dean of the pharmacy school.

STATE SCHOLARSHIPS AND LOANS - Consult high school counselor, college advisor, or write State Department of Education to determine what financial assistance may be available. A number of State Pharmacy Foundations have been organized to provide scholarships. For further information, write the college of pharmacy of your choice.

OTHER SOURCES - Consult high school counselor about civic, service and fraternal organizations; religious, racial or nationality organizations; local firms and associations. Service clubs which give scholarships in certain areas include Elks Lodge, Knights of Columbus, Knights Templar, Zonta and Bethel Lodge.

PHYSICAL THERAPIST

THE AMERICAN PHYSICAL THERAPY ASSOCIATION, 1156 15th Street, N.W., Washington, D.C. 20005, Telephone: 202-466-2070, has available upon request single copies of career materials, information on physical therapy education and a list of known sources of financial assistance available to prospective physical therapy students from National and State organizations.

NATIONAL SOURCES

*American Leaders Foundation c/o Northeastern Pennsylvania National Bank & Trust Company Wyoming & Spruce Street Scranton, Pennsylvania 18507	Loans only.
*The Program Department AMVETS National Headquarters P.O. Box 19025 Washington, D.C. 20036	Children of deceased or totally disabled (service connected) World War II or Korean veterans.
*The Army Relief Society 30 West 44th Street New York, New York 10036	Orphans of Regular Army Personnel.
*Anita Perlman Scholarship Award B'nai B'rith Youth Organization 1640 Rhode Island Avenue, N.W. Washington, D.C. 20036	Limited to girls active in B'nai B'rith Youth Organization.
*Azalia P. Oberg Foundation, Inc. 504 Broadway Gary, Indiana 46402	Seniors only attending accredited colleges. Loans only.
*National Association of American Business Clubs P.O. Box 5127 High Point, North Carolina 27262	Junior, Senior and Certificate students.
*Eddy Student Loan Trust Fund c/o Thomas & Thomas 504 Broadway, Suite 1016 Gary, Indiana 46402	Senior or Certificate students. Loans only.
*Elks National Foundation 40 Court Street Boston, Massachusetts 02108	Senior and Certificate students.
*Firestone Scholarship Program The Firestone Tire & Rubber Company Akron, Ohio 44137	Children of qualified employees of Firestone Tire & Rubber Company. High School Seniors.

*Not restricted to physical therapy.

*Fund for Education, Inc. 319 Lircoln Street Manchester, New Hampshire 03103	Loans only.
*Educational Foundation Independent Order of Odd Fellows Box 214 Connersville, Indiana 47331	Loans to students with acceptable records at accredited institutions.
*Indian Health Employees Scholarship Fund 422½ South Main Street Aberdeen, South Dakota 57403	Students of Indian descent at accredited institutions.
*Kappa Delta Phi Sorority and National Society for Crippled Children and Adults 2023 West Ogden Avenue Chicago, Illinois 60012	Senior and Certificate students.
*McMillan Scholarship Program c/o American Physical Therapy Association 1790 Broadway New York, New York 10019	Senior Certificate. Inquire of Physical Therapy Director at school of choice.
*National Scholarship Service and Fund for Negro Students 6 East 82nd Street New York, New York 10028	Freshman, Sophomore, Junior, at accredited interracial institutions.
*The Leopold Schepp Foundation 551 Fifth Avenue New York, New York 10117	Junior, renewable for Senior. No Certificate or Senior year only.
*The Methodist Church Department Student Loans and School P.O. Box 871 Nashville, Tennessee 37202	School: Methodist attending accredited Methodist schools. Loans: attending approved Physical Therapy program.

FEDERAL

The Vocational Rehabilitation Administration, U.S. Department of Health, Education, and Welfare has made traineeships available for juniors, seniors and certificate students in physical therapy. Inquire of Physical Therapy Director at school of your choice.

The Branches of the U.S. Armed Forces have plans to assist students who wish to become physical therapists. For information concerning these, contact:

U.S. Air Force

U. S. Air Force Recruitment Service (OTN) Randolph AFB, Texas 78148	Women only. Senior Certificate.

U. S. Army

The Surgeon General Department of the Army Washington, D.C. 20135	Women only. Senior Certificate.

U.S. Navy

U.S. Navy Chief, Medical Service Corps Bureau of Medicine and Surgery Navy Department Washington, D.C. 20025	Men and women. Senior Certificate.

PHYSICIAN

NATIONAL MEDICAL FELLOWSHIPS, INC., provides scholarships to Negro students who are citizens of the U.S. admitted to or attending medical school. Application and information may be secured by writing to 3935 Elm Street, Downers Grove, Illinois 60515. Applications must be filed by March 1.

NEW YORK LIFE INSURANCE COMPANY MEDICAL STUDENTS SCHOLARSHIP PROGRAM offers four-ye[illegible] scholarships to assist young men and women with ability who would otherwise have serious financial problems attending a medical school. The amount provided is intended to cover tuition, room, board, fees, books and equipment as budgeted by the Dean of the school before each academic year. Selection of students is solely the responsibility of the medical schools; however, students must be citizens of the United States or Canada and cannot be relatives of employees of the New York Life Insurance Company. Inquiries about applications should be directed to the Dean of Medicine at the following medical schools: University of Alberta, University of Arkansas, University of California, Indiana University, University of Kentucky, Laval University Faculty of Medicine, University of Nebraska, State University of New York, Downstate Medical Center, University of Utah, University of Vermont, and West Virginia University.

PODIATRIST

APA SCHOLARSHIPS - Three $2,000 four-year scholarships are awarded annually (renewable up to $8,000). Applicants must possess a bachelor's degree, plus meeting other requirements.

FEDERAL GOVERNMENT - Up to ten per cent of the entering classes of each podiatry college may be awarded Federal scholarships in amounts up to $2,500 per year (renewable annually). Eligibility is based on academic excellence and demonstrated proof of financial need. The awards are administered by the individual college.

STATE ORGANIZATION SCHOLARSHIPS - Scholarships available to podiatry students include the Dr. William Lowe Scholarship ($100 awarded annually to a third-year student) by the California Podiatry Association to a student at the California Podiatry College. The Ohio Podiatry Association Scholarship ($300 renewable) is awarded annually to an Ohio resident at the Ohio College of Podiatry, preferably a beginning student who is in need of financial aid. Two Pennsylvania Podiatry Assistant Scholarships (Western Division) of $300 each are awarded annually to a junior and senior who are Pennsylvania residents attending the Ohio College of Podiatry. These awards are usually made to students who have shown need for financial help.

SCHOLARSHIP AWARDS BY PODIATRY COLLEGES - Partial scholarships (approximately $400 a year) are made available by the M. J. Lewi College of Podiatry Board of Trustees to students demonstrating need for financial assistance. Several of the other schools have similar programs. The Zacharie Scholarship in Podiatry - one full tuition, four-year award, is made each year to an entering student at the California Podiatry College. The California Podiatry College annually offers a scholarship for postgraduate study to a senior who demonstrates proficiency in clinical work. The Earl G. Kaplan Scholarship award ($200) is offered each year to a junior at the Ohio College of Podiatry toward tuition and fees for the senior year. Edward Bean Memorial Scholarship awards ($200) are made annually to members and former members of the Northwest Junior Athletic Association of Detroit.

THE AMERICAN PODIATRY ASSOCIATION offers three $2,000 scholarships annually (renewable up to $8,000) to first-year podiatry students of academic excellence who possesses a bachelor's degree as well as meet other requirements. The Association also offers $4,000 fellowships annually (renewable up to $8,000 over a minimum two-year period) for studies leading to an advanced degree in a field related to podiatry. Areas of specialization include the basic and clinical sciences, education, educational administration and public health.

Additional scholarships and student aid are available at the colleges of podiatry, while several state societies also support similar programs. Federal scholarships and student loans are available at the colleges of podiatry.

For additional information write the APA Committee on Scholarships and Fellowships, 20 Chevy Chase Circle, N.W., Washington, D.C. 20015.

OTHER SCHOLARSHIPS - New York State Scholarship Incentive Awards are given each year, varying in amounts from $200-800, for students attending the M. J. Lewi College of Podiatry. Awards are made available by the New York State Department of Education.

FELLOWSHIPS

AMERICAN PODIATRY ASSOCIATION - Each year the American Podiatry Association grants four $4,000 fellowships (renewable up to $8,000 over a minimum two-year period) for work leading to an advanced degree in a field related to podiatry. Areas of specialization include the basic and clinical sciences, public health, education and educational administration. In addition, a minimum of four hours per week is required at a college of podiatry.

STATE ORGANIZATION FELLOWSHIPS - Annually, the Ohio Podiatry Association offers a fellowship ($1,800) to support a graduate of a

college of podiatry holding a bachelor's degree and pursuing advanced work.

OTHER FELLOWSHIPS - Three fellowship awards of $1,000 each are made every year by the Mead Johnson Pharmaceutical Company for graduate programs, including internship training. For additional information and applications, write: Committee on Scholarships and Fellowships, American Podiatry Association, 3301 16th Street, N.W., Washington, D.C. 20010.

PUBLIC HEALTH

THE AMERICAN ASSOCIATION FOR HEALTH, PHYSICAL EDUCATION AND RECREATION, a Department of the National Education Association, 1201 Sixteenth Street, N.W., Washington, D.C. 20036, cooperates with interested organizations and corporations in sponsoring a program of scholarship assistance to high school seniors of unusual promise who desire to enter professional preparation of teaching and leadership in physical fitness and related areas of physical education. Grants vary from $1,000 and $2,000. Secure application forms prior to October 15 from the source indicated above.

PUBLIC HEALTH EDUCATOR schools of public health have information about scholarships and financial aid available for both undergraduate and graduate study. Also available are traineeships from both state and Federal health departments for graduate work leading to a master's degree in an accredited school of public health. For further information write or personally contact a public health educator in your local or State Health Department.

THE U.S. PUBLIC HEALTH SERVICE offers the following opportunities for training in health careers: Public Health Traineeships. Graduate or specialized training in public health for persons who have completed their basic professional education, and who plan to enter the field of public health. The traineeships provide stipend, tuition, fees, and certain transportation costs. Persons with training of this kind are needed throughout the range of activities found in modern public health practice. Application forms are available from the Health Manpower Grants Branch, Division of Health Manpower Educational Services, 9000 Rockville Pike, Bethesda, Maryland 20014.

SCIENCE

SCIENCE TALENT SEARCH, conducted by Science Clubs of America, sponsored by Westinghouse Educational Foundation each year, offers scholarships for boys and girls in their last year of high school. Awards are based on a science aptitude examination, high school record, recommendations of high school teachers, a thousand-word report on the science research project by the student and interviews of forty finalists by judges at the Science Talent Institute in

Washington, D.C. Awards include ten scholarships of one $10,000, two $8,000, three $6,000, and four $4,000. The remaining thirty each receive Westinghouse Science awards of $250. State Science Talent Searches are conducted currently with the National Competition in 43 states and the District of Columbia. Detailed information is available from Science Clubs of America, 1719 N. Street, N.W., Washington, D.C. 20036. Entry deadline date December.

SOCIAL WORK

THE CHILDREN'S BUREAU, DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE makes available traineeships for graduate training at the master's degree level, and at the doctoral level for personnel for work in the field of child welfare. Traineeships provide basic allowances, tuition and fees. Information concerning traineeships may be obtained by writing to the Division of Family and Child Welfare Services, Children's Bureau, Social and Rehabilitation Service, U.S. Department of Health, Education, and Welfare, 330 Independence Avenue, S.W., Washington, D.C. 20201.

KAPPA KAPPA GAMMA FRATERNITY annually offers scholarships to young women to assist them in preparation for work with the mentally retarded, the physically handicapped, the socially deprived, the emotionally disturbed, and the aged. Applicants must be citizens of the U.S. or Canada and have completed two years of undergraduate work on a campus where a chapter of this fraternity is located. Women studying in the fields of physical therapy, occupational therapy, speech and hearing, mental health, and social work are eligible. Undergraduate awards are for $300 to $350. Graduate awards are for $500 to $1,000. Details and application forms may be obtained from Kappa Kappa Gamma Fraternity Headquarters, 530 East Town Street, Columbus, Ohio 43125.

THE SCHOOL OF SOCIAL SERVICE ADMINISTRATION, THE UNIVERSITY OF CHICAGO, offers graduate fellowships and scholarships ranging from $1,125 to $5,650. The school offers a two-year program leading to the A.M. Degree in preparation for practice in social casework, social group work, or community organization; and a program leading to the Ph.D. Degree in preparation for research or teaching. Application for admission and scholarship may be obtained by writing the Dean of Students, School of Social Service Administration, The University of Chicago, Chicago, Illinois 60637.

LOANS

THE NATIONAL DEFENSE STUDENT LOAN PROGRAM - If you are a college student, or a prospective college student, and in need of financial assistance to continue, or commence your college education, you may borrow for college expenses in one year a sum not exceeding $1,000

or during your college course a sum not to exceed $5,000. A graduate or professional student may borrow up to $2,500 in one year, but the total loans during undergraduate and graduate study may not exceed $10,000. Repayment of the loan begins nine months after a borrower ceases to carry at least one-half the normal academic work load and is to be complete within ten years. Interest of 3% will begin at the time the repayment period begins. The Act contains a further provision that up to 50% of a loan (plus interest) may be cancelled in the event the borrower becomes a full-time teacher in a nonprofit elementary or secondary school, or in an institution of higher education. Should a borrower elect to teach in a designated school located in a poverty area or to teach handicapped youths in an elementary or secondary school system, his entire obligation may be cancelled at the rate of 15% a year. Interested students should consult their guidance counselor or the student financial aid officer of the college or university in which they are or expect to be enrolled.

THE NATIONAL DEFENSE EDUCATION ACT, under Title IV authorized the granting of 2,905 graduate fellowships for academic year 1969-70. The fellowships are designed to increase the supply of college teachers and to expand the facilities for graduate education in all fields. They carry stipends of $2,400 for the first year, $2,600 the second and $2,800 the third, with $500 a year for each dependent. Students should apply directly to the graduate schools having programs in which these fellowships are available. A booklet listing these schools and programs may be obtained from the Graduate Academic Programs Branch, Division of Graduate Programs, U.S. Office of Education, Washington, D.C. 20202.

PICKETT AND HATCHER EDUCATIONAL FUND makes loans to financially needy students enrolled in colleges and universities offering broad liberal education with preference being given to undergraduate students. Loans are not available for strictly professional education, such as law, medicine, or the ministry, except the profession of teaching is included. The loans may include amounts required for fees, tuition, room and board up to an annual amount of $1,000 with the total borrowed not to exceed $4,000. The loans will bear interest of 2% per annum while in school and 4% after student leaves school. Repayment is to start six months after the student leaves school and to include an amount which is not less than 10% of the income. For more information and application forms, write Pickett and Hatcher Educational Fund, P.O. Box 2128, Columbus, Georgia 31902.

THE HEALTH PROFESSIONS SCHOLARSHIP PROGRAM - Under this program Federally supported scholarship awards are available at participating schools of medicine, dentistry, osteopathy, optometry, pharmacy, podiatry, and veterinary medicine for students of exceptional financial need to pursue a full-time course of study. The amount of an individual scholarship depends upon the student's need as determined by

the school; however, no scholarship may exceed $2,500 per year. Further information and scholarship application forms may be obtained from the participating school selected by the student. General information and lists of participating schools are available from the Bureau of Health Professions Education and Manpower Training, National Institutes of Health, 9000 Rockville Pike, Bethesda, Maryland 20014.

THE NURSING STUDENT LOAN PROGRAM - Under this program, Federally supported loans are available at schools of professional nursing for students who need assistance to pursue a full-time course of study at the school. The amount of an individual loan will depend upon the student's need as determined by the school; however, no loan may exceed $1,500 per academic year. The aggregate amount a student may receive for all years is $6,000. The total loan is repayable over a 10-year period beginning nine months after the student ceases to pursue a full-time course of study at a nursing school. During the repayment period, interest accrues on the total loan at the rate of 3%. Repayment on a loan may be deferred during periods of active military duty and service in the Peace Corps (up to 3 years each) and during periods of advanced professional training in nursing (up to 5 years). Up to 50% of the total amount of a loan, plus interest, may be cancelled when the borrower is employed full time as a professional nurse in the fields of nurse training and service in any public or nonprofit private institution or agency at the rate of 10% per year for each complete year of such employment. Up to 100% of the total amount of a loan, plus interest, may be cancelled when the borrower is employed full time as a professional nurse in a public or nonprofit hospital located in an area which has a substantial shortage of nurses at such hospitals at the rate of 15% per year for each complete year of such employment.

THE AMERICAN MEDICAL ASSOCIATION EDUCATION AND RESEARCH FOUNDATION has established a Medical Education Loan Guarantee Program to help eliminate the financial barrier to medicine for all students who are qualified and accepted by an approved training institution. The loan program which is extended to medical students, interns and residents is the result of a cooperative effort by American medicine and private enterprise. Annual loans up to $1,500 are made with a maximum up to $10,000 over a seven-year period. Detailed information may be secured from the source listed above, located at 535 North Dearborn, Chicago, Illinois 60610.

COMMERCIAL LENDING SOURCES OF FUNDS - Over 9,000 banks in 50 states participate with approximately 900 colleges in a loan program known as United Student Aid Funds, Inc. The loans are available to all students at participating colleges in amounts up to $1,000 a year, up to a maximum of $5,000 for undergraduates; and $1,500 a year, up to a maximum of $7,500 for graduate students. Notes under this program draw 7% simple interest. In this case of many loans, much of the interest will be paid by the Federal Government. Repayments start the first of the

tenth month after finishing graduate or undergraduate education. Monthly installments usually are not less than $30 or more than $100. For further information, contact United Student Aid Funds, Inc., 5259 North Tacoma Avenue, Indianapolis, Indiana 46220, or your college Financial Aid Officer. Other well recognized organizations that specialize in education loans for students are: Funds for Education, Inc., 319 Lincoln Street, Manchester, New Hampshire 03103; Education Funds, Inc., 10 Dorrance Street, Providence, Rhode Island 02901.

OTHER ASSISTANCE PROGRAMS

THE AMERICAN HEART ASSOCIATION'S affiliates and chapters have varied programs for helping young people learn about health career opportunities. In the main, these are work experience, field trips and educational programs. For further information, contact the Heart Association in your community or the American Heart Association, 44 E. 23rd Street, New York, New York 10010.

FEDERAL GOVERNMENT COOPERATIVE EDUCATION PROGRAMS FOR NEARLY ALL COLLEGE MOTORS - High school graduates may be eligible for these programs. The work-study type program leads to a B.S. Degree and usually is of five years' duration. Student trainees receive a salary during periods of employment according to Civil Service standards. Some financial assistance toward tuition, books, and related fees may be paid by the sponsoring activities. Students wishing to be considered should apply to the agency in which employment is desired. Most Federal agencies employ some student trainees; however, the largest employers are the Departments of the Army, Navy, and Air Force, and the National Aeronautics and Space Administration.

COLD WAR GI BILL

Veterans' Pension and Readjustment Assistance Act of 1967

OBJECTIVE: To provide educational opportunities for a potential of over five million qualified service men and women now in civilian life or on active duty in the Armed Forces.

ELIGIBILITY: Any veteran of the Army, Navy, Marine Corps, Air Force or Coast Guard who has served and was honorably discharged; 1) Continuously on active duty for at least 181 days ending after January 31, 1955. 2) A veteran who served less than 181 days, if his active duty was ended by a service-connected disability. 3) Persons still in service, if they have had at least six months active duty.

DURATION AND BENEFITS: Benefits will be paid at the rate of $1\frac{1}{2}$ months, for each month of active duty or fraction thereof, to a maximum of 36 months.

Basis for payments are as follows:

	No Dependents	One Dependent	Two Dependents	Each Dependent Thereafter
School Full Time	$175.00	$205.00	$230.00	$13.00
3/4 Time	128.00	152.00	177.00	10.00
1/2 Time	81.00	100.00	114.00	7.00

Less than 1/2 Time: Payments computed at the rate of the established charges for tuition and fees or at the rate of $75 per month for full time courses, whichever is the lesser.

While on Active Duty: Same as for less than 1/2 time.

Cooperative (School course plus business training)	$141.00	$167.00	$192.00	$10.00

AVAILABILITY OF TRAINING: In approved courses at a (public or private) college, vocational, business, high school, correspondence school, on the job training, institutional on the farm training, and flight training.

HIGH SCHOOL TRAINING: Benefits are available to complete high school training or refresher courses to qualify for higher education without a charge against the basic entitlement.

TIME LIMITATION: Benefits will not be paid beyond eight years from the date of the last discharge or release from active duty if the discharge was on or after June 1, 1966.

APPLICATION: Write or visit the Veterans Administration office nearest your place of residence.

WAR ORPHANS ACT
(JUNIOR GI BILL)

OBJECTIVE: To provide Educational opportunities for approximately 185,000 children of veterans who died or were permanently and totally disabled in or as the result of service in the Armed Forces of the United States.

ELIGIBILITY: 1) Students whose parents died or are permanently and totally disabled from disease or injury incurred or aggravated in the Armed Forces during the Spanish-American War, World War I, World War II, the Korean War, or the Vietnam Conflict. 2) Benefits are also extended to children of veterans who died or are permanently and totally

disabled while in the Armed Forces during the following periods: (A) Beginning September 16, 1940 and ending December 6, 1941; (B) Beginning January 1, 1947 and ending June 26, 1950; and (C) While selective service is in operation from the end of the Korean War, (January 31, 1955). 3) Assistance is available to eligible students, during the period which begins on date of 18th birthday or successful completion of high school, whichever occurs first, and ends on reaching the 26th birthday.

EXCEPTIONS: The period will be extended where (1) student's individual deadline falls in the middle of a term, in which case they would be permitted to complete the semester or term; (2) persons enter military service before age 26; (3) when students become eligible under the Act and are over 18 but under 26 years of age.

DURATION AND BENEFITS: A maximum of 36 months of training and education may be obtained with payments of $175 per month paid upon completion of each month of full-time training, $128 for 3/4 time, and $81 for 1/2 time.

AVAILABILITY OF TRAINING: In approved colleges (public and private), vocational, business schools, and other educational institutions.

MONTANA HOSPITAL ADMINISTRATORS AND DIRECTORS OF NURSING

NOTE: The following list is provided as a guide to the student for making career inquiries at his local hospital. The Administrator or Director of Nursing will usually be cooperative in giving guidance in hospital based careers or they will refer him, for further information, to other hospital personnel in the student's interest area.

CITY	HOSPITAL	ADMINISTRATOR	DIRECTOR OF NURSING
Anaconda	Community Hospital	Mr. Warren Croston	Mrs. Dorothy Ryan, R.N.
Baker	Fallon Memorial	Mr. David Sack	Mrs. Albertina Holmlund, R.N.
Big Sandy	Big Sandy Medical Center	Mr. David Sande	Mrs. Helen Caldwell, R.N.
Big Timber	Sweet Grass Community	Miss Lois K. Williams, R.N.	Miss Lois K. Williams, R.N.
Billings	Billings Deaconess	Mr. Robert D. Howe	Mrs. Joanne Dodd, R.N.
Billings	St. Vincent's	Sister Alice Marie	Sister Therese, R.N.
Boulder	Boulder River	Mr. Robert Perry	Mrs. Margaret Keating, R.N.
Bozeman	Bozeman Deaconess	Mr. Donald L. Lee	Mrs. Mildred Flanagan, R.N.
Bozeman	Montana State University	Edward J. Purdey, M.D.	Mrs. Ruth Hodis, R.N.
Browning	USPHS Indian Hospital	Mr. Nelson Clay	
Butte	St. James Community	Sister Mary Canjar	Sister Margaret O'Connor, R.N.
Butte	Silver Bow General	Mr. John A. Delaney	Mrs. Frances Anderson, R.N.
Chester	Liberty County	Mr. Roy R. Wodarz	Mrs. Shirley Kulpas, R.N.
Choteau	Teton Memorial	Mr. James E. Humble	Ms. Margaret Olson, R.N.
Circle	McCone County	Mrs. Cloe E. Idland, R.N.	Mrs. Cloe E. Idland, R.N.
Columbus	Stillwater Community	Mr. William S. Paterson	Ms. Olive Lamb, R.N.
Conrad	Pondera County	Sister Eumelia, R.N.	Sister Eumelia, R.N.

CITY	HOSPITAL	ADMINISTRATOR	DIRECTOR OF NURSING
Crow Agency	USPHS Indian Hospital	Mr. Larry Slaughter	
Culbertson	Roosevelt Memorial	Mr. Gene C. McCracken	Mrs. Phyllis Romo, R.N.
Cut Bank	Glacier County Memorial	Mr. Clarence Peterson	Mrs. Clarise Griffin, R.N.
Deer Lodge	Powell County Memorial	Mr. Harold B. Viestenz	Mrs. Margueritte Ullery, R.N.
Dillon	Barrett	Mr. Edwin V. Richards	Mrs. Peggy Holmes, R.N.
Ekalaka	Dahl Memorial	Mrs. Margaret Castleberry, R.N.	Mrs. Margaret Castleberry, R.N.
Ennis	Madison Valley	Mr. Phil Loucks	Mrs. Lois Olsen, R.N.
Forsyth	Rosebud Community	Mr. James Leidholt	Mrs. Dorothy Gregory, R.N.
Fort Benton	St. Clare Hospital	Sister Suzanne Corriveau	Sister Rose Eva, R.N.
Fort Harrison	Veterans Administration	Mr. Leon M. Wallace	
Galen	Galen State	Mr. Everett E. Logan	Mrs. Angela Savich, R.N.
Glasgow	Frances Mahon Deaconess	Mr. Ernest R. Logan	Mrs. Marci Freuh, R.N.
Glendive	Glendive Community	Mr. Phillip M. Auble	Mrs. Maxine Voorhees, R.N.
Great Falls	Columbus	Mr. Thomas Underriner	Mrs. Barbara Driver, R.N.
Great Falls	Montana Deaconess	Mr. Fred K. Holbrook	Mrs. Mercedes Strain, R.N.
Great Falls	MAFB USAF Hospital	Lt. Col. Russell J. Thomas	
Hamilton	Marcus Daly Memorial	Mr. Richard C. Atkins	Mrs. Evelyn Tout, R.N.
Hardin	Big Horn County Memorial	Mr. Thomas L. Sylvester	Ms. Carolyn M. Grazley, R.N.
Harlem	USPHS Indian Hospital	Mr. Raymond Becich	
Harlowton	Wheatland Memorial	Mr. Robert Holmes	Mrs. Marion Hickman, R.N.
Havre	Northern Montana	Mr. A. H. Moeller	Mrs. Hazel Brendgard, R.N.
Helena	St. John's	Sister Macrina, R.N.	Mrs. Jane Cromwell, R.N.
Helena	St. Peter's	Mr. Gerald Leavitt	Mrs. Wanda Brosz, R.N.
Helena	Shodair Crippled Children's	Mr. Russell Steen	Mrs. Vivian DeVine, R.N.

CITY	HOSPITAL	ADMINISTRATOR	DIRECTOR OF NURSING
Hot Springs	Sanders County General	Mr. William A. Steckel	Mrs. Chloe Roosma, R.N.
Jordan	Garfield County	Mrs. Patricia Harbaugh, R.N.	Mrs. Patricia Harbaugh, R.N.
Kalispell	Kalispell General	Mr. Alex S. McAllister	Mrs. Juanita Micken, R.N.
Lewistown	Central Montana	Mr. James R. Adams	Mrs. Lena Oldenburg, R.N.
Libby	St. John's Lutheran	Mr. Robert L. Aronson	Mrs. Dorothy Lampton, R.N.
Livingston	Livingston Memorial	Mr. Edward L. Austin	Mrs. Ruth Williams, R.N.
Malta	Malta Hospital	Mr. Elmer Hendrickson	Mrs. Delores Grimes, R.N.
Miles City	Holy Rosary	Mr. Frank Stewart	Mrs. Frances Cummings, R.N.
Miles City	V. A. Hospital	Mr. W. G. Hitchings	
Missoula	Missoula Community	Mr. V. R. Powers	Mrs. Della Swartz, R.N.
Missoula	Missoula General	Mr. D. A. Wanberg	Mrs. Sylvia Mercer, R.N.
Missoula	St. Patrick	Mr. Arthur V. Crandall	Miss Marilyn Scott, R.N.
Missoula	University of Montana	Robert B. Curry, M.D.	Mrs. Katherine Kelly, R.N.
Philipsburg	Granite County Memorial	Mrs. Doris Kempfer, R.N.	Mrs. Doris Kempfer, R.N.
Plentywood	Sheridan Memorial	Mrs. Beryl McLean, R.N.	Mrs. Mavis Carlson, R.N.
Polson	St. Joseph	Sister C. Donovan	Sister St. Joan of Arc, R.N.
Poplar	Poplar Community	Mr. Lester Anderson	Mrs. Betty Moilanen, R.N.
Red Lodge	Carbon County Memorial	Mr. Frank J. Hilzinger	Mrs. Mona Bone, R.N.
Ronan	St. Luke Community	Mrs. Frank Mager, R.N.	Mrs. Frank Mager, R.N.
Roundup	Roundup Memorial	Mrs. Norma Nason, R.N.	Mrs. Norma Nason, R.N.
St. Ignatius	Holy Family	Sister Davenport	Sister Marcelle, R.N.
Scobey	Daniels Memorial	Mr. Alden Way	Mrs. Esther Lyhene, R.N.
Shelby	Toole County	Mr. Levi Taft	Mrs. Cathryn Roberts, R.N.
Sheridan	Ruby Valley	Mr. Walter Taborski	Mrs. Carol Braach, R.N.

CITY	HOSPITAL	ADMINISTRATOR	DIRECTOR OF NURSING
Sidney	Community Memorial	Mr. C. Gregg McKown	Mrs. Orriene Thilmony, R.N.
Superior	Mineral	Mr. Paul J. Heaney	Mrs. Philomena Harris, R.N.
Terry	Prairie Community	Mr. Harry B. Lee	Mrs. Anna Hauck, R.N.
Townsend	Broadwater	Mr. C. T. Holland	Mrs. Mary Hargrove, R.N.
Warm Springs	Warm Springs State	Stanley J. Rogers, M.D.	Mrs. Ellen Linehan, R.N.
Whitefish	North Valley	Mrs. Olga S. Torgerson	Mrs. Edith Butters, R.N.
White Sulphur Springs	Mountainview Memorial	Mr. Duane Beckland	Mrs. Mary Hanson, R.N.
Wolf Point	Trinity	Mr. Ralph V. Johnson	Mrs. Janis Evje, R.N.

LIST OF SUGGESTED RESOURCE PERSONS

in

Billings, Bozeman, Butte, Glasgow, Great Falls, Havre, Helena, Kalispell, Lewistown, Miles City, Missoula, Shelby, and Sidney

for information regarding

Administrators, Dentists, Dietitians, Medical Record Librarians, Medical Technologists, Pharmacists, Physical Therapists, Physicians, Radiologic Technologists, and Registered Nurses

BILLINGS

ADMINISTRATOR:

Mr. Robert G. Tirrell
Billings Clinic
2802 9th Avenue North
Billings, Montana 59101

DENTISTS:

Richard H. Akland, D.D.S.
2718 3rd Avenue North
Billings, Montana 59101

Wayne L. Hansen, D.D.S.
17th Street West & Avenue D
Billings, Montana 59101

James S. Stroeher, D.D.S.
205-6 Hart-Albin Building
Billings, Montana 59101

DIETITIANS:

Mrs. Lois Gorton
2009 16th Street West
Billings, Montana 59101

Mrs. Sally Guy
2125 Fairway Drive
Billings, Montana 59101

MEDICAL RECORD LIBRARIAN:

Alice Solem, R.R.L.
Billings Deaconess Hospital
2813 9th Avenue North
Billings, Montana 59101

MEDICAL TECHNOLOGISTS:

Bynum Jackson, M.T.
St. Vincent's Hospital
2915 12th Avenue North
Billings, Montana 59101

Jean Gowdy, M.T.
Billings Clinic
2802 9th Avenue North
Billings, Montana 59101

Leonard Larson, M.T.
Billings Deaconess Hospital
2813 9th Avenue North
Billings, Montana 59101

PHARMACIST:

Mr. John Severson
St. Vincent's Hospital
2915 12th Avenue North
Billings, Montana 59101

PHYSICAL THERAPIST:

Robert Nicol, P.T.
Billings Clinic
2802 9th Avenue North
Billings, Montana 59101

PHYSICIAN:

Alfred M. Fulton, M.D.
Billings Clinic
2802 9th Avenue North
Billings, Montana 59101

RADIOLOGIC TECHNOLOGIST:

Guy Copeland, R.T.
Department of Radiology
St. Vincent's Hospital
2915 12th Avenue North
Billings, Montana 59101

REGISTERED NURSE:

Pat Larson, R.N.
1021 Burlington
Billings, Montana 59101

BOZEMAN

ADMINISTRATOR:

Mr. Emmett D. Shriver
Heetderks Clinic
20 East Olive Street
Bozeman, Montana 59715

DENTISTS:

Richard C. Ritter, D.D.S.
300 North Willson
Bozeman, Montana 59715

Wayne E. Thompson, D.D.S.
414 1st National Bank Bldg.
Bozeman, Montana 59715

John C. Gilpin, D.D.S.
19 North 8th Street
Bozeman, Montana 59715

DIETITIAN:

Mrs. Louise Oman
509 North 9th
Bozeman, Montana 59715

MEDICAL RECORD LIBRARIAN:

Nancy E. Campbell, R.R.L.
117 Bozeman
Bozeman, Montana 59715

MEDICAL TECHNOLOGISTS:

Linda Carlson, M.T.
Physicians' Lab Service
15 West Lamme
Bozeman, Montana 59715

Ida McKnight, M.T.
Student Health Service
Montana State University
Bozeman, Montana 59715

PHYSICAL THERAPIST:

Gordon E. Herwig, P.T.
15 West Lamme
Bozeman, Montana 59715

PHYSICIAN:

A. L. Vadheim, M.D.
300 North Willson Avenue
Bozeman, Montana 59715

REGISTERED NURSE:

Herva Simpson, R.N.
Bozeman Deaconess Hospital
15 West Lamme
Bozeman, Montana 59715

BUTTE

ADMINISTRATOR:	Mr. Theron Scott Murray Clinic 9 West Granite Butte, Montana 59701
PHARMACIST:	Mr. Robert Lenz Lenz Pharmacies 2009 Harrison Avenue Butte, Montana 59701
PHYSICIAN:	Raymond D. Grondahl, M.D. 2500 Continental Drive Butte, Montana 59701
RADIOLOGIC TECHNOLOGIST:	James Haas, R.T. P. O. Box 52 Warm Springs, Montana 59756
REGISTERED NURSE:	Marie Bradley, R.N. 821 West Galena Butte, Montana 59701

GLASGOW

ADMINISTRATOR:

Mr. Loren Lagerquist
Glasgow Clinic
Glasgow, Montana 59230

DENTISTS:

Selmer S. Espeland, Jr., D.D.S.
P. O. Box 788
Glasgow, Montana 59230

Wesley C. Neubauer, D.D.S.
P. O. Box 267
Glasgow, Montana 59230

DIETITIAN:

Mrs. Nan Klassen
810 6th Street North
Glasgow, Montana 59230

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